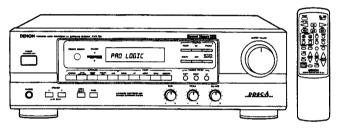
DENON

Hi-Fi AV Surround Receiver

SERVICE MANUAL

MODEL AVR-750/760/ 770/780

AV SURROUND RECEIVER



(Model: AVR-750)

The AVR-770/780 with gold panel and side wood boards.

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Some illustrations using in this service manual are slightly different from the actual set.

NIPPON COLUMBIA CO., LTD.

SAFETY PRECAUTIONS



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK), NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

安全注意事項



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



注意:為減少觸電危險,切勿拆下機殼(或機 背)。機身內並無用戶修理用零件。請交由專業 修理人員修理本機。



三角形內有箭頭的閃電符號旨在提醒用戶,本產品機殼內有未經絕緣的 "危險電壓",其幅度足以使人觸電而發生危險。



三角形內加感嘆號旨在提醒用戶,有重要的操作與維修説明書配合本機。

警告:為減少著火或觸電危險,切勿讓本機受雨淋濕或受潮。

Make the following settings before connecting the components. 連接各級備之前請先進行下列設定。

- Setting the line voltage (AVR-750/770)
- 新 設定電源電配 (AVR-750/770)



- . The customer can set the VOLTAGE SELECTORS on the back
- The dustomer can set me VOLTAGE SELECTORS on me bac panel for appropriate line vottage by using a screwdriver.
 Do not use excessive force in setting the VOLTAGE SELECTOR KNOB you may damage it.
 If the VOLTAGE SELECTOR KNOB does not move smoothly.
- contact your store of purchase.
- 用戶可利用螺絲起子將機費的VOLTAGE SELECTORS
- (電壓選擇學) 設定到適當的電源電壓。
- 如果電壓選擊旋鈕轉得不輪順,請向你購入本機的商號查詢。

Be sure to set both voltage selectors to same position.
 各電壓選擇單均須設定到同樣的位置。

NOTE ON USE



 Avoid high temperatures.
 Allow for sufficient heat dispersion when installed on a rack.



· Handle the power cord carefully Hold the plug when unplugging the



· Keep the set free from moisture, water, and dust.



· Unplug the power cord when not using the set for long periods of time.



· Do not obstruct the ventilation holes



. Do not let foreign objects in the set.



. Do not let insecticides, benzene, and thinner come in contact with the set.



any way.

使用注意事項



防止高温

勿將本機放置於受烈日哪蠼或靠近發 熟醫材的位置。

機架/機箱安裝注意

避免將本機裝於密閉的機架內。 裝於機架或機箱時·要配備足夠大的 適異孔・以加強散勢・



從插座拔出插頭時切勿拉電源線。



注意源汽・水和庫

勿將本機放置於濕度很高或多趣的位 置。花瓶或其它有水的物件均不宜提 在本機上方。



當你外出時

長時間不用本機時,例如外出旅行 時·須將插頭拔雕電源插座。



勿堵塞機殼的通風孔

增惠通風孔會損壞本機。 各通風孔對本機內部散熟異常重要。 擋・戦會使機内温度升得很高。



勿讓雜物掉入機內

特別要留意勿談針、型夾、硬幣等進 入本機・



保護機能

差免在本機附近噴縄袋島削・也勿用 八油天拿水或其它溶剤抹機箱・因疽 順溶液易引起品質或關色改變。抹整 要用軟布,在用化學處理過的布指抹 時間小心遵守説明書規定。



打開機設頂蓋或底板,及伸手入機設 內都是危險的。切勿打開機設。如果 本機表現有不妥當時,宜立刻拔下電 振振頭、再與購入本機的商店或鄰近 經銷商聯络・

2

AVR-750/760/770/780

- We greatly appreciate your purchase of the AVR-750/760/770/780.
- To be sure you take maximum advantage of all the features the AVR-750/760/770/780 has to offer, read these instructions carefully and use the set properly. Be sure to keep this manual for future reference should any questions or problems arise.

"SERIAL NO. _____ PLEASE RECORD UNIT SERIAL NUMBER ATTACHED TO THE REAR OF THE CABINET FOR FUTURE REFERENCE"

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	2-3 Connecting the video components	5-1 Setting the frequency step
3	2-4 Connecting the antenna terminals	5-3 Auto tuning
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	4-2 Playing the program source (Stereo playback)	
	4-3 Simulcast playback	
	4-5 Listen with headphones9	Specifications

ACCESSORIES

Check that the following parts are included in addition to the main unit:

			The state of the s
(I)	Operating instructions	•	AM loop antenna1
മ്	Remote control unit (RC-840)	(5)	FM Indoor antenna 1
ெ	R6P/AA batteries	•	Plug adaptor1
I ~			(AVR-750/770)



1 INTRODUCTION

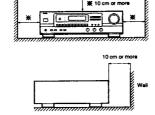
INSTALLATION PRECAUTIONS

Using this receiver or other electronic equipment containing microprocessors simultaneously with a tuner or TV may result in noise in the sound or picture.

If this should happen, take the following steps:

- Install this unit as far as possible from the tuner or TV set.
- Keep the antenna lines of the tuner or TV as far as possible from the receiver's power cord and connection cables.
- + This problem is especially frequent when using indoor antennas. We recommend using outdoor antennas and 75 Ω /

For heat dispersal, leave at least 10 cm of space between the top, back and sides of this unit and the wall or other components.



CAUTION:

Whenever the POWER operation switch is in the OFF position, the unit is still connected on AC line voltage. Please be sure to unplug the cord when you leave home for, say, a vacation.

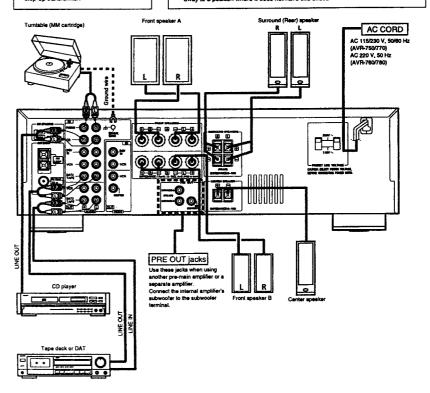
2 CONNECTIONS

- Do not plug in the power cord until all connections have been completed.
- Be sure to connect the left and right channels properly (left with left, right with right).
- Insert the plugs securely. Incomplete connections will result in the generation of noise
- Note that binding pin plug cords together with power cords or placing them near a power transformer will result in the introduction of hum or other noise.
- Noise or humming may be generated if a connected component is used independently without turning the power of the AVR-750/760/770/780 on. If this happens, turn on the power of the AVR-750/760/770/780.

2-1 Connecting the audio components

NOTE: This unit cannot be used with MC cartridges directly. Use a separate head amplifier or step-up transformer.

Precautions when connecting speakers
if a speaker is placed near a TV or video monitor, the colors on the screen may be
disturbed by the speaker's magnetism. If this should happen, move the speaker
away to a position where it does not have this effect.

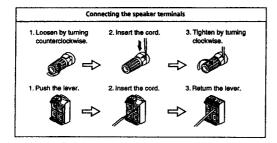


2-2 Speaker System Connections

- . This unit can accommodate connections of a total of seven speakers including two set of front speakers (A and B), one set of SURROUND (REAR) speakers, and one center speaker.
- . Connect the speaker terminals with the speakers making sure that like polarities are matched (Θ with Θ , Θ with Θ). Mismatching of polarities will result in weak central sound, unclear orientation of the various instruments, and the sense of direction of the stereo being impaired.
- · When making connections, take care that none of the individual conductors of the speaker cord come in contact with adjacent terminals, with other speaker cord conductors, or with the rear panel.

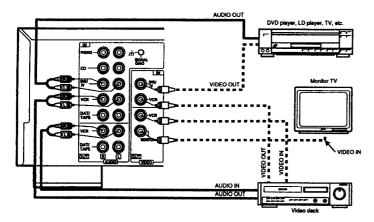
Speaker Impedance

- · When speaker systems A and B are use separately, speakers with an impedance of from 8 to 16 Ω /ohms can be
- . When using with two pairs of speakers (A + B), use speakers with an impedance of 16 Ω /ohms or greater.
- Speakers with an impedance of 8 to 16 Ω/ohms can be connected for use as center and SURROUND (REAR) speakers.
- . The protection circuit may operate or damage may occur when speakers with an impedance outside of the above range are used.

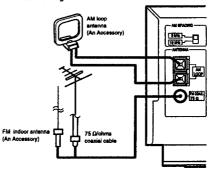


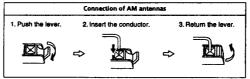
2-3 Connecting the video components

To connect the video signal, connect using a 75 Ω/ohms video signal cable cord. Using an improper cable can result in a drop in sound quality.



2-4 Connecting the antenna terminals





ANTENNA INSTALLATION

- ANTENNA INSTALLATION

 FM ANTENNA
 The supplied FM anienna can be used inside wooden
 houses for receiving local FM stations and other strong FM
 signals. Stretch out the ends of the anienna and mount the
 anienna on the well or ceiling where optimum reception is
 achieved. A indoor FM sarkernas may not consistently ensure
 stable reception, due to environment changes, in such
 cases, the indoor FM sarkernas should only be used
 temporarily until an outdoor FM inferem has been installed,
 ordered to the control of the
- AM ANTENNA
- AM ANTENNA.
 Tune in an AM station (refer to page 12, 13) listen to the sound, then install the antenna in a position as far from the set as possible in which distortion and noise are minimum. Good reception of AM stations is not possible if the loop antenna is not connected or if it is touching metal objects.
- NOTES This receiver has a full back-up system. When the power is turned on, the INPUT SELECTOR buttons are set to the lest mode are before the power was turned of.

 When using this receiver in close proximity to video explorest (TV, VCR, DV), e.b., noise may be generated in AM broadcasts. To avoid this, keep the receiver as far away from other video components as possible, or place the AM loop anisans where noise is reduced. If the noise is not reduced, turn of the power of the video components when listening to AM broadcasts.

Note to CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820 — 40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as

3 REMOTE CONTROL UNIT

Following the procedure outlined below, insert the batteries before using the remote control unit.

Range of operation of the remote control unit

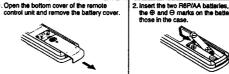


Point the remote control unit at the remote control sensor as shown on the diagram at the left.

- . The remote control unit can be used from a straight distance of approximately 7 meters/20 feet, but this distance will shorten or operation will become difficult if there are obstacles between the remote control unit and the remote control sensor, if the remote control sensor is exposed to direct sunlight or other strong light,
- or if operated from an angle.

 Neon signs or other devices emitting pulse-type noise nearby may result in malfunction, so keep the set as far away from such devices as possible.

■ Inserting the batteries



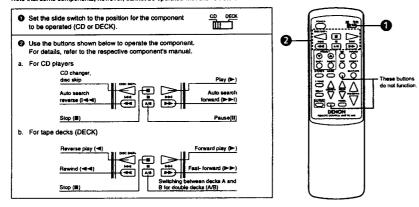
2. insert the two R6P/AA batteries, matching the ⊕ and ⊖ marks on the batteries with





- . Use only AA, R6P, UM-3 batteries for replacement.
- · Be sure the polarities are correct. (See the illustration inside the battery compartment.)
- Remove the batteries if the remote control transmitter will not be used for an extended period of time.
- . If batteries leak, dispose of them immediately. Avoid touching the leaked material or letting it come in contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.
- · Have replacement batteries on hand so that the old batteries can be replaced as quickly as possible when the time comes.

DENON remote-controllable audio components can be controlled using this unit's remote control unit. Note that some components, however, cannot be operated with this remote control unit.



4 OPERATIONS

- 4-1 Preparations for playback
- Check that all connections are proper.
- Set to the minimum position.

MASTER VOLUME

Set to the center position



Turn on the power.
 Press the POWER operation switch (button).



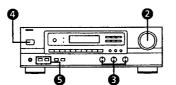
ON/STANDBY

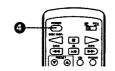
The power turns on sand "STANDBY" indicator is fit. Several seconds are required from the time the POWER operation switch is set to the " "= ON/STANDBY" position until sound is output. This is due to the built-in muting circuit that prevents noise when the POWER operation switch is turned on and off. Set the POWER operation switch to this position to him the

Set the POWER operation switch to this position to turn the power on and off from the included remote control unit (RC-840).

• 🚨 OFF

The power turns off and "STANDBY" indicator is off.
In this position, the power cannot be turned on and off from the
remote control unit.





Select the front speakers.
Press the speaker A or B switch to turn the speaker on.



NOTE:

In the standby mode
If you lose the remote control unit, the power can be
turned on by initializing the microprocessor.
For the operating procedure, see: [§] INITIALIZATION

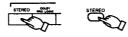
OF THE MICROPROCESSOR on page 13
Note that this operation will clear the last function memory.

4-2 Playing the program source (Stereo playback)

Select the source to be played.



Select the STEREO mode.



Adjust the MASTER VOLUME control



Adjust the front left/right BALANCE. Turn the control counterclockwise to reduce the volume of the right channel, clockwise to reduce the volume of the left channel.



4-3 Simulcast playback

Use this switch to monitor a video source other than the audio source.

 Press and hold the VIDEO SELECT button until the desired source appears on the display.

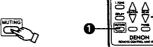


- * Cancelling simulcast playback
- Press the VIDEO SELECT button once more.
- · Select the VIDEO function.

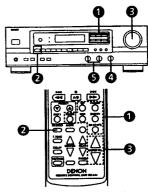
4-4 Using the muting function

Use this to turn off the audio output temporarily.

- Press the MUTING button.
- Cancelling MUTING mode.
 Press the MUTING button again.



This function can only be set from the remote control unit. The STANDBY LED flashes when the muting function is set.



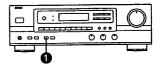
Adjust the BASS and TREBLE.



Turn the control clockwise to increase the bass, countered to



Turn the control clockwise to increase the treble, counterclockwise to decrease it



4-5 Listen with headphones

Connect the headphones to the PHONES jack.
When listening with headphones privately, set A, B SPEAKER
switches and the superwoofer's power switch to the OFF position
and set the stereo surround mode.
NOTE:

To prevent hearing loss, do not raise the volume level excessively when using headphones.



9

- 4-6 Recording the program source (recording the source currently being monitored)
- Follow steps to under "Playing the program source". (refer to page 9)
- Start recording on the tape or video deck. For instructions, refer to the component's operating instructions.

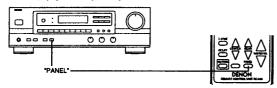
Simultaneous recording

The signals of the source selected with the function selector button are output simultaneously to the DAT/TAPE and VCR REC OUT jacks. If a total of two tape and/or video decks are connected and set to the recording mode, the same source can be recorded simultaneously on both decks.

In addition, if the TAPE MONITOR (DAT/TAPE) button is pressed, the audio signals from the tape deck are output to the VCR AUDIO REC OUT jacks.

4-7 Front panel display

Descriptions of the unit's operations are also displayed on the front panel display. In addition, the display can be switched to check the unit's operating status while playing a source by pressing the PANEL button.



4-8 Using the surround function

Types of surround modes and their characteristics

1	DOLBY PRO LOGIC	Use this when playing program sources recorded in Doiby Surround or Doiby Stereo.
2	CONCERT HALL	Use this setting to create the atmosphere of a concert half. There will be no output from the center speaker.
3	LIVE	Use this setting to create the atmosphere of watching a live performance. There will be no output from the center speaker.

· Before using the surround function

Make the following adjustments before using the surround function

Set the Dolby Pro Logic mode.





2 Select the center mode (refer to page 11). Select the center mode according to the center speaker



-> NORMAL --> PHANTOM The mode changes as shown shows

@ Emit the test tone.



Test tones are produced from the speakers in the order shown below, at 4 second intervals for the first two cycles, 2 second intervals after that.

+ FL → C → FR → S

Adjust the center and surround



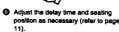
(rear) levels to set the volume of the speakers to the same level.



G Turn the test tone of

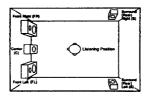
 \Box

0 00 00

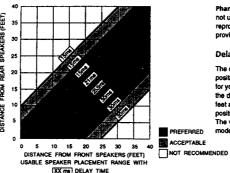


000





Dolby Surround systems with Pro Logic decoding most closely replicate the Dolby Stereo theatrical experience. Only two surround speakers are necessary in the home listening environment to provide the same enveloping soundfield as multiple surround speakers in the



Center Mode

Set the center mode as described below, according to the type of center speaker being used

Normal mode: This mode is suited for an arrangement in which the center channel speaker is smaller than the left and right speakers. Signals below 100 Hz which have almost no effect on directional orientation are distributed to the left and right channels, whereas the center channel output signals greater than 100Hz. As a result, the bass of the left and right channels increases the apparent deepness of the sound.

Wide mode: This mode is suited for an arrangement in which the center channel speaker is of the same grade as the left and right speakers. The entire sound band from low region to high is output to the center channel to provide an exciting sound field for your

Phantom mode: Use this mode when center channel speaker is not used. A directional emphasis circuit provides signal reproduction which is electrically oriented to the center and this provides an exciting sound field for your enjoyment.

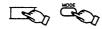
Delay Time

The optimum delay time will differ depending on the listening position. Referring to the chart at left, set the optimum delay time for your room's space and seating position. For example, when the distance from the front speakers to the listening position is 20 feet and that from the surround (rear) speakers to the listening position is 15 feet, the optimum delay time will be 21 ms. The variable range of the delay time differs depending on the

Personal Memory Plus function for EASY TO USE —

The AVR-750/760/770/780 automatically stores the surround mode adding effects for all input sources. The corresponding surround mode is recalled automatically each time an input source is selected.

- Using the surround function
- Select the surround mode according to the input source.



If necessary, adjust the levels.



Adjust the parameters to the desired settings.





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The following is a list of the buttons and functions which can be operated during the different surround modes. Figures in parentheses indicate adjustment ranges.

		OUTPUT	CENTER LEVEL	SURROUND (REAR) LEVEL	CENTER MODE	TEST TONE	DELAY TIME
	NORMAL	0	O (0 24dB)	O (0 24dB)	0	0	O (15 ~ 30ms)
DOLBY PRO LOGIC	PHANTOM	0	X	O (0 24dB)	0	0	O (15 - 30ms)
	WIDE	0	O (0 24dB)	O (0 24dB)	0	0	O (15 - 30ms)
CONCERT HALL		0	X	O (0 ~ - 24dB)	Δ*1	Х	O (0 ~ 33ms)
LIVE		0	×	O (0 24dB)	Δ*1	x	O (0 - 33ms)

*1 Switches to the Dolby Pro Logic from any modes other than Dolby Pro Logic. The level of the center and surround (rear) channels can be adjusted by 2 dB step. The delay time can be set by 1.5 ms step.

- O: Operation possible X: Operation not possible
- The sound may be distorted for some sources if the surround (rear) level is raised during surround playback. If this happens, lower the surround (rear) level.

5 LISTENING TO THE RADIO

5-1 Setting the frequency step (AVR-750/770)



To know the tuning frequency steps, see the Table of Tuning Frequency Steps.

TABLE OF	TABLE OF TUNING FREQUENCY STEPS												
BAND FM AM													
STEP AM SPACING: 9 kHz	0.05 MHz	9 kHz											
STEP AM SPACING: 10 KHz	0.2 MHz	10 kHz											

The tuning frequency steps are switchable between 9 kHz and 10 kHz for AM, between 0.05 MHz and 0.2 MHz for FM. To switch the tuning frequency steps, disconnect the power plug and set the AM SPACING switch (①) on the rear panel to the desired position. Then plug in the AC mains again.

5-2 Auto preset memory

This unit is equipped with a function for automatically searching for FM broadcast stations and storing them in the preset memory.

1 Turn on the unit while holding in the MEMORY button. The unit automatically begins searching for FM broadcast stations.





- When the first FM broadcast station is found, that station is stored in the preset memory at channel A1. Subsequent stations are automatically stored in order at preset channels A2 to A8, B1 to B8, C1 to C8, D1 to D8 and E1 to E8, for a maximum of 40 stations.
- 5-3 Auto tuning
- Set the input function to "TUNER".





 Watching the display, press the BAND button to select the desired band (AM or FM).



 Press the MODE button to set the auto tuning mode. - TUNER -

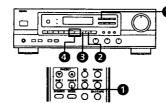


"AUTO" appears on the display.

- 0 00 00 000
- Channel A1 is tuned in after the auto preset memory operation is completed.

NOTES:

- . If an FM station cannot be preset automatically due to poor reception, use the "Manual tuning" operation to tune in the station, then preset it using the manual "Preset memory" operation.
- . To interrupt this function, press the POWER operation button.



Press the TUNING UP or DOWN button



Automatic searching begins, then stops when a station is tuned in

- 5-4 Manual tuning
- Set the input function to "TUNER".
- 2 Watching the display, press the BAND button to select the desired band (AM or FM).
- Press the MODE button to set the manual-tuning mode. Check that the display's "AUTO" indicator turns off.
- Press the TUNING UP or DOWN button to tune in the desired The frequency changes continuously when the button is held

0:

preset memory.

00

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To preset other channels, repeat steps 2 to 6.

(channels 1 to 8) in each of blocks A to E.

A total of 40 broadcast stations can be preset - 8 stations

G Press the MEMORY button again to store the station in the

80

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- . When in the auto tuning mode on the FM band, the "STEREO" indicator lights on the display when a stereo broadcasts tuned in. At open frequencies, the noise is muted and the "TUNED" and "STEREO" indicators turn off.
- . When the manual tuning mode is set, FM stereo broadcasts are received in monaural and the "STEREO" indicator turns off.

5-5 Preset memory

- 1 Use the "Auto tuning" or "Manual tuning" operation to tune in the station to be preset in the memory.
- Press the MEMORY button.



 Press the SHIFT button and select the desired memory block (A to F).



@ Press the PRESET UP or DOWN button to select the desired preset channel (1 to 8).



- 5-6 Recalling preset stations
- 1 Watching the display, press the SHIFT button to select the preset memory block.





Watching the display, press the PRESET UP or DOWN button o select the desired preset channel.





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6 INITIALIZATION OF THE MICROPROCESSOR

When the indication of the display is not normal or when the operation of the unit does not shows the reasonable result, the initialization of the microprocessor is required by the following

- Switch off the unit using the main unit's POWER operation
- Hold the following TUNER button and VIDEO SELECT button, and turn the main unit's POWER operation switch on.
- Oheck that the entire display is flashing with an interval of about 1 second, and release your fingers from the 2 buttons.
- Switch on the unit and the microprocessor will be initialized.

. When the microprocessor is reset, all the settings you have made are reset to the values set upon shipment from the factory

7 LAST FUNCTION MEMORY

- . This unit is equipped with a last function memory which stores the input and output setting conditions as they were immediately before the power is switched off.
- This function eliminates the need to perform complicated resettings when the power is switched on. . This unit is also equipped with a back-up memory. This function provides approximately one week of memory storage with the power cord disconnected.

8 TROUBLESHOOTING

If a problem should arise, first check the following:

- 1. Are the connections correct?
- 2. Have you followed all operational instructions correctly?
- 3. Are the speakers, turntable, and other components operating properly?
- If the receiver is not operating properly, check the items listed in the table below. Should the problem persist, there may be a malfunction. Disconnect the power immediately and contact your store of purchase.

	Symptom	Cause	Measures	Page
	DISPLAY not lit and sound not produced when power operation switch set to on.	Power cord not plugged in securely.	Check the insertion of the power cord plug.	5
Common problems arising when listening to the CD, records, tapes, and FM broadcasts, etc.	DISPLAY lit but sound not produced.	Speaker cords not securely connected. Speaker switch is off. Improper position of the audio function button. Volume control set to minimum.	Connect securely. Turn on speaker switch. Set to a suitable position. Turn volume up to suitable level.	5, 6 8 9
Ē	DOOTEON disables assess	MUTING is on. Speaker terminals are short-circuited.	Switch off MUTING. Switch power off, connect speakers	9 5, 6
hen listening I Ic.	-PROTECT- display appears.	Block the ventilation holes of the set.	properly, then switch power back on. Turn off the set's power, then ventilate it well to cool it down. Once the set is cooled down, turn the	3, 4
ems arising w broadcasts, e		The unit is operating at continuous high power conditions and/or inadequate ventilation.	power back on. - Turn off the set's power, then ventilate it well to cool it down. Once the set is cooled down, turn the power back on.	3, 4
nmon probi	Sound produced only from one channel.	 Incomplete connection of speaker cords. Incomplete connection of input/output cords. Leit/right balance is off. 	Connect securely. Connect securely. Adjust balance knob properly.	5, 6 5, 6
O st	Positions of instruments reversed during stereo playback.	Reverse connections of left and right speakers or left and right input/output cords.	Check left and right connections.	5, 6
	Sound seems distorted.	Surround (rear) level is too high.	Set the Surround (rear) level to lower level.	10, 11
	Humming noise produced when record is playing.	 Ground wire of turntable not connected properly. Incomplete PHONO jack connection. TV or radio transmission entenna nearby. 	Connect securely. Connect securely. Contact your store of purchase.	5 5 -
When playing records	Howling noise produced when volume is high.	Turntable and speaker systems too close together. Floor is unstable and vibrates easily.	Separate as much as possible. Use cushions to absorb speaker vibrations transmitted by floor. If turntable is not equipped with insulators, use audio insulators (commonly available).	-
When	Sound is distorted.	Stylus pressure too weak. Dust or dirt on stylus. Cartridge defective.	Apply proper stylus pressure. Check stylus. Replace cartridge.	-
	Volume is weak.	MC cartridge being used.	Replace with MM cartridge or use a head amplifier or step-up transformer.	5
Remote control	Receiver does not operate properly when remote control unit is used.	Batteries dead. Remote control unit too far from receiver. Obstacle between receiver and remote control unit. Different button is being pressed.	Replace with new batteries. Move closer. Remove obstacle. Press the proper button.	7 7 7 7,8
2 15 2 15 2 15 2 15		 ⊕ and Θ ends of battery inserted in reverse. 	Insert batteries properly.	7

9 SPECIFICATIONS

 Audio Section (Power amplifier)

FRONT Rated output:

55 W + 55 W (8 Ω/ohms, 20 Hz - 20 kHz with 0.08 % THD)

80 W + 80 W (6 Ω/ohms, EIAJ) CENTER

(All properties shown are only for the power 55 W (8 Ω/ohrns, 20 Hz - 20 kHz with 0.08 % THD)

amplifier stage.) 80 W (6 Ω/ohms, EIAJ)

SURROUND (REAR)

25 W + 25 W (8 Ω/ohms, 1 kHz with 0.9 % THD)

35 W + 35 W (6 Ω/ohms, EIAJ)

Output terminals: 8 to 16 Ω/ohms Center: 8 to 16 Ω/ohms

Surround (Rear): 8 to 16 Ω/ohrns (Pre-amplifier)

Line input (Each line input - FRONT SP OUT) 200 mV/47 kΩ/kohms input sensitivity/impedance:

PHONO (MM): 2.5 mV/47kΩ/kohms

(AM SPACING: 9 kHz)

(AM SPACING: 10 kHz)

18 uV

50 dB

522 to 1,611 kHz (9 kHz step)

520 to 1,710 kHz (10 kHz step)

10 Hz to 50 kHz: + 3 dB ± 10 dB at 100 Hz BASS: ± 10 dB at 10 kHz

TREBLE: 92dB (STEREO) Signal-to-noise ratio: Rated output (Pre out):

Phono equalizer (PHONO input - REC OUT) RIAA deviation: ± 1 dB (20 Hz to 20 kHz)

Signal-to-noise ratio: 74 dB (A weighting, with 5 mV input)

Rated output/Maximum output: 200 mV/8 V

Distortion factor: 0.03 % (1 kHz, 1 V)

 Tuner Section Receiving Range:

Frequency response:

Tone control range:

[FM] (note: μ V at 75 Ω /ohms, 0 dBf = 1 x 10⁻¹⁵ W)

(AM SPACING: 9 kHz)

87.50 to 108.00 MHz (50 kHz step)

(AM SPACING: 10 kHz)

87.50 to 107.90 MHz (200 kHz step) 1.0 µV (11.2 dBt)

Usable Sensitivity: 50 dB Quieting Sensitivity:

MONO 1.6 μV (15.3 dBf) STEREO 23 μV (38.5 dBf)

Signal to Noise Ratio (IHF-A): MONO 80 dB STEREO 75 dB

Total Harmonic Distortion MONO 0.15 % STEREO 0.3 %

(at 1 kHz)

Video Section

Standard video jacks

input and output level/impedance: 1 Vp-p/75 Ω/ohms Frequency response: 2 Hz to 8 MHz + 0, - 3 dB

General

Power supply:

AC 115/230V, 50/60 Hz (AVR-750/770) AC 220V, 50 Hz (AVR-760/780)

Power consumption 180 W

Maximum external dimensions: 434 (W) x 142 (H) x 315 (D) mm (17-3/32" x 5-19/32" x 12-25/64") (AVR-750/760) 471 (W) x 143 (H) x 315 (D) mm (18-35/64" x 5-41/64" x 12-25/64") (AVR-770/780)

7.8 kg (17 lbs 7 oz) (AVR-750/760) 8.8 kg (19 lbs 7 oz) (AVR-770/780)

Remote control unit

System remote control RC-840:

Weight:

Total buttons: 28 DENON system code

6 buttons } (SWITCHED) CD player:

Cassette deck: AVR-750/760/770/780 fixed codes:

22 buttons

Batteries: R6P/AA Type (two batteries)

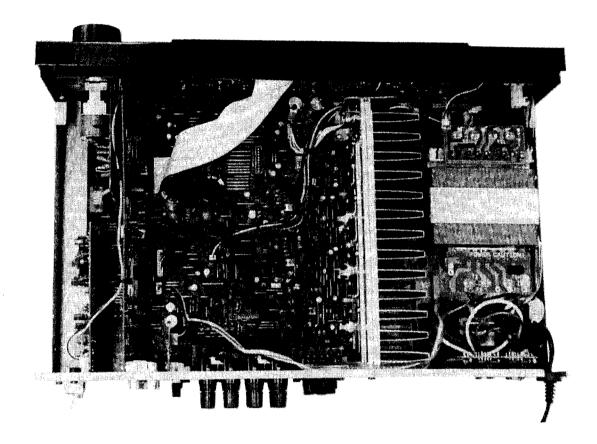
51 (W) x 175 (H) x 18.5 (D) mm (2" x 6-57/64" x 47/64") External dimensions:

100 g (Approx. 3.5 oz) (including batteries)

^{*} For purposes of improvement, specifications and design are subject to change without notice.

WIRE ARRANGEMENT

In case of wires require unclasping or loosening to move the location to perform adjustment or part replacement, be sure to rearrange them neatly to restore properly in the same location as they were originally placed, or causing to produce a noise may occasionally occur.

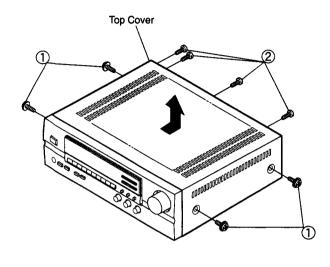


DISASSEMBLY

(To reassemble reverse disassembly)

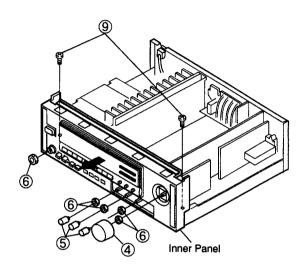
1. Top Cover

Remove 4 screws ① and 4 screws ②.



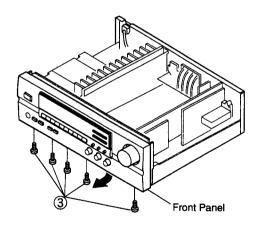
3. Inner Panel

- (1) Pull out Volume knob 4 and 3 round knobs 5 .
- (2) Remove 5 nuts 6
- (3) Remove 2 screws (9) .



2. Front Panel

Remove 5 screws 3.

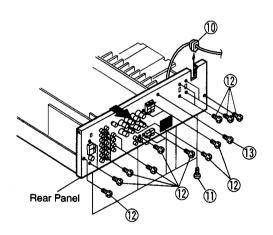


4. Rear Panel

- (1) Disconnect cord bush 10 .
- (2) Remove 5 screws ①, and 22 screws ②.

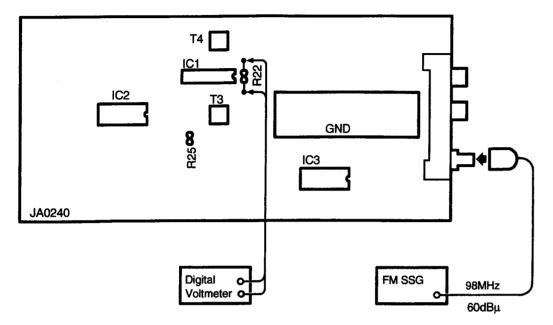
 * Screws ② are tighten.

 (3) Remove 1 screw ③.



CONNECTION DIAGRAM OF MEASURING INSTRUMENTS

FM SECTION



Adjust T4 potential difference across R22 to be within 30mV.

• Initiating (Memory clearing) Method

To clear memory contents of microcomputer and restore to the initial state, take the following steps;

- 1. Press power switch, turn off power of the unit, and set to standby mode.
- 2. Pull out power cord from wall outlet temporally.
- 3. Insert power cord into outlet while simultaneously pressing two keys of VIDEO SELECT and TUNER.
- 4. Press power switch to confirm that memory contents are cleared.

By completion of the above, the initial state is restored. In case the memory can not be cleared due to some reasons, repeat steps 1 through 3.

Note:

When in the Standby mode, the unit is in the Power OFF state when turn Power SW ON with remote control.

AUDIO SECTION

Idling Current (JA0241)

Required measurement equipment: DC Voltmeter

Arrangement

(1) Avoid direct blow from an air conditioner or an electric fan, and adjust the unit at normal room temperature 15°C ~ 30°C. (59°F ~ 86°F).

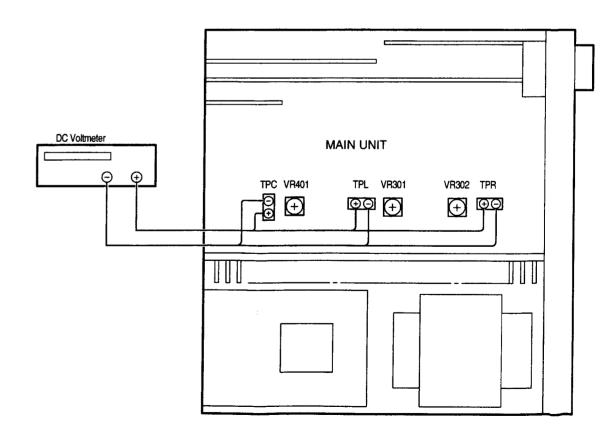
(2) Presetting

- POWER (Power source switch)
 MODE (Mode button)
 FUNCTION (Function button)
 VOLUME (Volume control)
 → ON
 → STEREO
 → CD
 → 0: fully counterclockwise (min.)
- SPEAKERS (Speaker terminal) → No load (Do not connect speaker, dummy resistor, etc.)

Adjustment

- (1) Remove top cover and set VR401, VR301 and VR302 of JA0241 (Main Unit) at counterclockwise fully.
- (2) Connect DC Voltmeter to test points (Lch TPL, Rch TPR, CENTER ch TPC).
- (3) Connect power cord to AC Line, and turn power switch "ON".
- (4) Allow 15 minutes, and turn VR301, VR302 and VR401 clockwise () and adjust the TEST POINTS voltage to 1.5 mV ±0.5 mV DC.
- (5) After 2 minutes from preset, turn VR301, VR302 and VR401 to set the voltage to 3 mV ±0.5mV DC.

JA0241 Main Unit (Component Side)

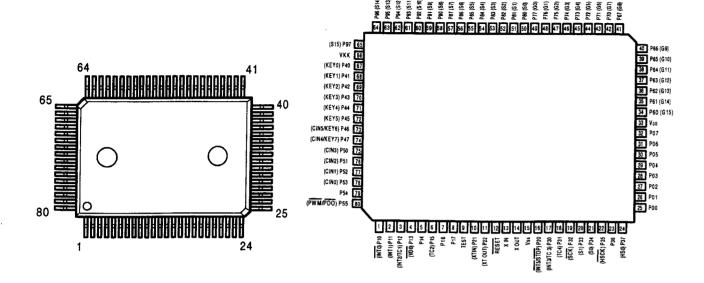


11

SEMICONDUCTORS

● IC's

TMP87CM71F-6668 (IC701)



TMP87CM71F-6668 Terminal Function

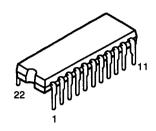
No.	_	T	т'''-	T		T		T	
2	Pin No.	Symbol	1/0	Туре	Ор	Det	Res	Init	Function
SEXP. DATA	1	STOP	1	<u> </u>	Eu	Lv	Z		Detect power stop ("L" at power stop)
4 EXP. CK	2	PROTECTION	1		Eu	E&L	Z		Protection input ("H" at protection)
5 EXP. STB O C — Z L Port expand strobe output 6 VR. CK O C — S Z L TC9176 (electron VR) control clock output 7 VR. DATA O C — S Z L TC9176 (electron VR) control data output 8 VR. STB O C — Z L TC9176 (electron VR) control data output 8 VR. STB O C — Z L TC9176 (electron VR) control data output 8 VR. STB O C — Z L TC9176 (electron VR) control data output 10 TUNED I — Eu Lv Z — Connect to ground. 11 — Eu Lv Z — Reset input 12 RESET I — Eu Lv Z — Reset input 13 X IN I — Eu Ed	3	EXP. DATA	0	С	_		Z	L	Port expand data output
6 VR. CK O C − S Z L TC9176 (electron VR) control clock output 7 VR. DATA O C − S Z L TC9176 (electron VR) control data output 8 VR. STB O C − Z L TC9176 (electron VR) control data output 9 TEST I − GND − − Connect to ground. 10 TUNED I − Eu Lv Z − "L" at stereo receive 11	4	EXP. CK	0	С	_		Z	L	Port expand clock output
7 VR. DATA O C — S Z L TC9176 (electron VR) control data output 8 VR. STB O C — — Z L TC9176 (electron VR) control strobe output 9 TEST I — GND — — C Connect to ground. 10 TUNED I — Eu Lv Z — "L" at stereo receive 11 O — — — Z L Fixed output on "L" 12 RESET I — Eu Lv Z — Reset input 13 XIN I — — — — Coscillator circuit (4MHz) 14 X OUT O — — — Ground 15 GND I — Eu Ed Z — ROS data, Start signal input (LC704)* 17 REMOCON I — Eu E Z	5	EXP. STB	0	С	L-	_	Z	L	Port expand strobe output
8 VR. STB	6	VR. CK	0	С		S	Z	L	TC9176 (electron VR) control clock output
TEST	7	VR. DATA	0	С		S	Z	L	TC9176 (electron VR) control data output
TUNED	8	VR. STB	0	С	_	_	Z	L	TC9176 (electron VR) control strobe output
11	9	TEST	-	-	GND		_	_	Connect to ground.
12 RESET	10	TUNED	-	1	Eu	Lv	Z		"L" at stereo receive
13 X N	11		0			_	Z	L	Fixed output on "L"
14 X OUT O — — — Oscillator circuit (4MHz) 15 GND I — GND — — Ground 16 RDS START I — Eu Ed Z — RDS data, Start signal input (LC704)* 17 REMOCON I — Eu E&L Z — Remote control signal input (LC704)* 18 STEREO I — Eu Z L "L" at TUNER stereo receive 19 RDS. CK I — Eu S Z — RDS clock input (LC7074)* 20 RDS. DATA I — Eu S Z — RDS data input (LC7074)* 21 RDS. RESET O N Eu — Z L RDS reset signal output (LC7074)* 22 PLL. CK O N Eu — Z L LM7001 control clock output 23 PLL. STB O N <td< td=""><td>12</td><td>RESET</td><td>ı</td><td></td><td>Eu</td><td>Lv</td><td>Z</td><td></td><td>Reset input</td></td<>	12	RESET	ı		Eu	Lv	Z		Reset input
15 GND	13	X IN	_		_	_	_		Oscillator circuit (4MHz)
16 RDS START I — Eu Ed Z — RDS data, Start signal input (LC704)* 17 REMOCON I — Eu E&L Z — Remote control signal input 18 STEREO I — Eu — Z L "L" at TUNER stereo receive 19 RDS. CK I — Eu S Z — RDS clock input (LC7074) 20 RDS. DATA I — Eu S Z — RDS data input (LC7074)* 21 RDS. DATA I — Eu S Z — RDS data input (LC7074)* 21 RDS. RESET O N Eu — Z L RDS data input (LC7074)* 22 PLL. CK O N Eu — Z L LM7001 control clock output (LC7074)* 23 PLL. STB O N Eu — Z L LM7001 control data output	14	X OUT	0	_		_	-1	_	Oscillator circuit (4MHz)
17 REMOCON	15	GND	_		GND	_	-	_	Ground
18 STEREO	16	RDS START	1		Εu	Ed	Z	_	RDS data, Start signal input (LC704)*
19 RDS. CK I — Eu S Z — RDS clock input (LC7074) 20 RDS. DATA I — Eu S Z — RDS data input (LC7074)* 21 RDS. RESET O N Eu — Z L RDS reset signal output (LC7074)* 22 PLL. CK O N Eu — Z L LM7001 control clock output 23 PLL. STB O N Eu — Z L LM7001 control strobe output 24 PLL. DATA O N Eu — Z L LM7001 control data output 25 FUNC. DATA O C — — Z L LC7822 (Function IC) control data output 26 FUNC. CK O C — — Z L LC7822 (Function IC) control clock output 27 FUNC. STB O C — — Z L LC7822 (Function IC) control stro	17	REMOCON	_	-	Eu	E&L	Z	_	
20 RDS. DATA	18	STEREO			Eu	_	Z	L	"L" at TUNER stereo receive
21 RDS. RESET O N Eu — Z L RDS reset signal output (LC7074)* 22 PLL. CK O N Eu — Z L LM7001 control clock output 23 PLL. STB O N Eu — Z L LM7001 control strobe output 24 PLL. DATA O N Eu — Z L LM7001 control data output 25 FUNC. DATA O C — — Z L LC7822 (Function IC) control data output 26 FUNC. CK O C — — Z L LC7822 (Function IC) control clock output 27 FUNC. STB O C — — Z L LC7822 (Function IC) control strobe output 28 ST/MONO O C — — Z L TUNER STEREO/MONO control output ("L" at STEREO) 29 POWER OFF O C — — Z L	19	RDS. CK	1.		Eu	S	Z	-	RDS clock input (LC7074)
22 PLL. CK O N Eu — Z L LM7001 control clock output 23 PLL. STB O N Eu — Z L LM7001 control strobe output 24 PLL. DATA O N Eu — Z L LM7001 control data output 25 FUNC. DATA O C — — Z L LC7822 (Function IC) control data output 26 FUNC. CK O C — — Z L LC7822 (Function IC) control clock output 27 FUNC. STB O C — — Z L LC7822 (Function IC) control strobe output 28 ST/MONO O C — — Z L TUNER STEREO/MONO control output ("L" at STEREO) 29 POWER OFF O C — — Z L "L" at ON	20	RDS. DATA	_		Eu	S	Z	_	RDS data input (LC7074)*
23 PLL. STB O N Eu — Z L LM7001 control strobe output 24 PLL. DATA O N Eu — Z L LM7001 control data output 25 FUNC. DATA O C — — Z L LC7822 (Function IC) control data output 26 FUNC. CK O C — — Z L LC7822 (Function IC) control clock output 27 FUNC. STB O C — — Z L LC7822 (Function IC) control strobe output 28 ST/MONO O C — — Z L TUNER STEREO/MONO control output ("L" at STEREO) 29 POWER OFF O C — — Z L "L" at ON	21	RDS. RESET	0	N	Eu	_	Z	L	RDS reset signal output (LC7074)*
24 PLL. DATA O N Eu — Z L LM7001 control data output 25 FUNC. DATA O C — — Z L LC7822 (Function IC) control data output 26 FUNC. CK O C — — Z L LC7822 (Function IC) control clock output 27 FUNC. STB O C — — Z L LC7822 (Function IC) control strobe output 28 ST/MONO O C — — Z L TUNER STEREO/MONO control output ("L" at STEREO) 29 POWER OFF O C — — Z L "L" at ON	22	PLL. CK	0	N	Eu	_	Z	L	LM7001 control clock output
25 FUNC. DATA O C — Z L LC7822 (Function IC) control data output 26 FUNC. CK O C — Z L LC7822 (Function IC) control clock output 27 FUNC. STB O C — Z L LC7822 (Function IC) control strobe output 28 ST/MONO O C — Z L TUNER STEREO/MONO control output ("L" at STEREO) 29 POWER OFF O C — Z L "L" at ON	23	PLL. STB	0	N	Eu		Z	L	LM7001 control strobe output
26 FUNC. CK O C — Z L LC7822 (Function IC) control clock output 27 FUNC. STB O C — Z L LC7822 (Function IC) control strobe output 28 ST/MONO O C — Z L TUNER STEREO/MONO control output ("L" at STEREO) 29 POWER OFF O C — Z L "L" at ON	24	PLL. DATA	0	N	Eu	$-\top$	Z	L	LM7001 control data output
27 FUNC. STB O C — Z L LC7822 (Function IC) control strobe output 28 ST/MONO O C — Z L TUNER STEREO/MONO control output ("L" at STEREO) 29 POWER OFF O C — Z L "L" at ON	25	FUNC. DATA	0	С		-	Z	L	LC7822 (Function IC) control data output
28 ST/MONO O C — Z L TUNER STEREO/MONO control output ("L" at STEREO) 29 POWER OFF O C — Z L "L" at ON	26	FUNC. CK	0	С	_	-1	Z	L	LC7822 (Function IC) control clock output
29 POWER OFF O C — Z L "L" at ON	27	FUNC. STB	0	С	_ [[Z	L	LC7822 (Function IC) control strobe output
29 POWER OFF O C Z L "L" at ON	28	ST/MONO	0	С	-T		Z	L	TUNER STEREO/MONO control output ("L" at STEREO)
30 VOL. DOWN O C — Z L Electrically-drive volume control output (BA6208S)			0	С	-I		Z		
	30	VOL. DOWN	0	С	-I	-	Z	L	Electrically-drive volume control output (BA6208S)

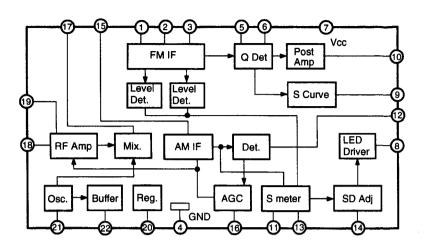
^{*} port is fixed "L" at RDS non-selection mode.

			,	,				
Pin No.	l Symbol	1/0	Туре	Ор	Det	Res	Init	Function
31	VOL. UP	0	С	<u> </u>	_	Z	L	Electrically-driven volume control output. (BA6208S)
32	SP-FRONT	0	С	<u> </u>	<u> </u>	Z	L	Front spesker relay control output.
33	VDD		<u>l —</u>	_	_	—	<u> </u>	Connect to +5V.
34	LED. PRO	0	P	ld	<u> </u>	Z	Н	DOLBY PROLOIC indecating LED drive output. ("H" at light)
35	LED. STBY	0	P	ld		Z	Н	Standby indecating LED drive output. ("H" at light)
36	1G	0	P	ld	_	L	L	FLD control output.
37	2G	0	P	ld	L-	L	L	FLD control output.
38	3G	0	Р	ld		L	Н	FLD control output.
39	4G	0	P	ld	<u> </u>	L	Н	FLD control output.
40	5G	0	Р	ld		Ļ	L	FLD control output.
41	6G	0	Р	ld		L	L	FLD control output.
42	7G	0	Р	ld	_	L	Н	FLD control output.
43	8G	0	Р	ld	_	L	L	FLD control output.
44	9G	0	Р	ld	_	L	L	FLD control output.
45	10G	0	Р	ld		L	L	FLD control output.
46	11G	0	Р	ld	_	L	Н	FLD control output.
47	12G	0	Р	ld	_	L	L	FLD control output.
48	13G	0	P	ld		L	Н	FLD control output.
49	14G	0	Р	ld		L	Ξ	FLD control output.
50	P (a)	0	Р	ld	_	L	Н	FLD control output.
51	P (b)	0	Р	ld	_	L	Η	FLD control output.
52	P (c)	0	Р	id	_	L	H	FLD control output.
53	P (d)	0	Р	ld	_	٦	Н	FLD control output.
54	P (e)	0	Р	ld		L	L	FLD control output.
55	P (f)	0	P	ď	_	٦	L	FLD control output.
56	P (g)	0	Р	ld	_	L	L	FLD control output.
57	P (h)	0	Ρ	ld	_	L	L	FLD control output.
58	P (j)	0	Р	ld	_	L	L	FLD control output.
59	P (k)	0	Р	ld	_	L	L	FLD control output.
60	P (m)	0	Р	ld	_	L	L	FLD control output.
61	P (n)	0	Р	ld		L	L	FLD control output.
62	P (p)	0	Р	ld		L	L	FLD control output.
63	P (q)	0	Р	ld	_	L	Г	FLD control output.
64	P (r)	0	Р	ld	_	Ļ	Г	FLD control output.
65	P (s)	0	Р	ld	_	L	L	FLD control output.
66	VKK	I		_	-	-1	_	Connect to VKK.
67	DD.CK	0	N	Eu	-	Z	Н	NJU9701G (Delay time) control clock output.
68	DD. REQ	0	N	Eu		Z	Н	NJU9701G (Delay time) control request output.
69	DD.DATA	0	N	Eu	-	Z	Н	NJU9701G (Delay time) control data output.
*70	MODE2		N	Eu	-1	Z		Select occurring or no RDS function. ("H" at occurring RDS function)"
71	VIDEO A	0	N	Eu	T	Z	Н	BU4066 (Video shift) control output. ("L" at selecting)
72	VIDEO B	0	N	Eu	_	Z	Н	BU4066 (Video shift) control output. ("L" at selecting)
73	KEY 5	-		Eu	Lv	Z	_	Button input 5.
74	KEY 4	I	=	Eu	Lv	Z	_	Button input 4.
75	KEY 3	ı	_	Eu	Lv	Z		Button input 3.
76	KEY 2 ⁻	ı	=	Eu	Lv	Z	_	Button input 2.
77	KEY 1	1	_	Eu	Lv	Z	=1	Button input 1.
78	MODE 1	1	_	Eu	Lv	Z		Model version change input.
79	TU MUTE	0	N	Eu	_	z	$\overline{}$	Tuner muting output. ("L" at muting)
80		0	N	Eu	_	Z		Fixed output on "H".

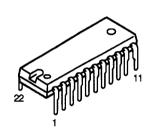
^{*} port is fixed "L" at RDS non-selection mode.

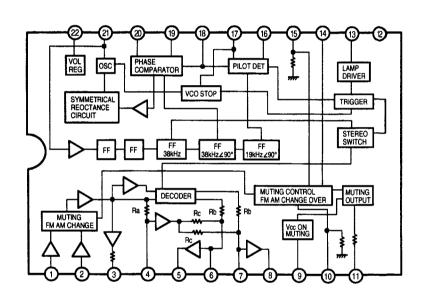




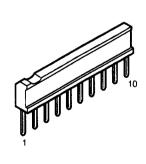


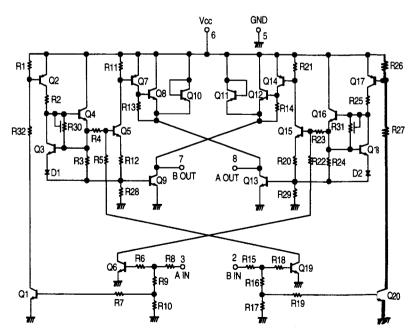
LA3401 (IC002)



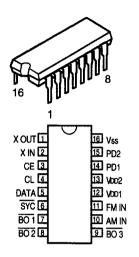


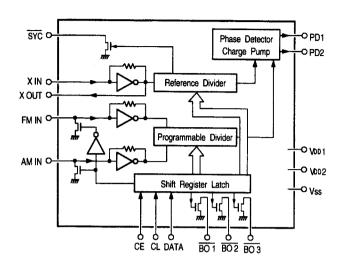
BA6208S (IC265)





LM7001 (IC003)





Terminal Description

SYC XIN, XOUT FMIN, AMIN CE, CL, DATA BO1, BO2, BO3 VDD1, VDD2, Vss PD1, PD2 : Clock for controller (400 kHz).

: X'tal OSC (7.2 MHz).

: Station oscillation signal input.

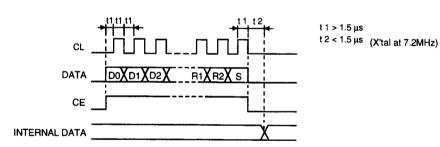
: Data input.

: Band data output. BO1 is feasible for time base output (8 Hz).

: Power supply. (VDD2 is for back-up).

: Charge pump output.

Data Input



Input from D0.

	,																						
DO	D1	D2	DЗ	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	TO	T1	Во	B1	B2	ТВ	R0	R1	R2]

(1) D0(LSB)~D13(MSB): Frequency dividend data For FMIN, use D0~D13; for AMIN, use D4~D13.

D0	D1	D2	D 3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	
1 LSB	0	1	0	0	0	0	0	0	1	0	1	1	1 MSB	→ FMIN Frequency dividend nnumber = 14853
x	x	x	x	0 LSB	0	0	0	0	1	0	1	1	1 MSB	→ FMIN Frequency dividend nnumber = 928

(2) T0, T1 : For test of LSI (0,0)

-O R1

O R2

-O R3

-O R5

-O R6

-O R7

-O R8

-O D1

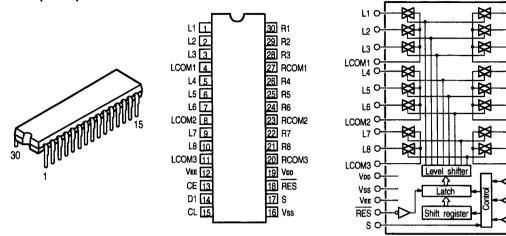
¦-o c∟

O RCOM2

O RCOM3

O RCOM1

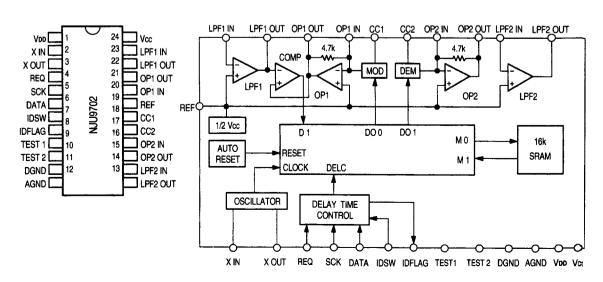
LC78212 (IC102)



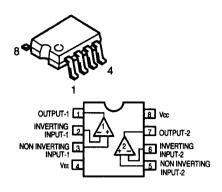
LC78212 Terminal Function

Name of Terminal	1/0	Equivalent Internal Circuit		Functi	on of T	ermina	d							
VDD, VSS VEE			Power terminal.						,					
L1~L8, R1~R8 LCOM1~LCOM4, BCOM1~BCOM4		Refer to block diagram	In/Out terminal of ar	nalog switdch.					_					
CL, DI, CE	1		Serial data input terminal (schmidt buffer). CL=Clock input terminal. DI=Data input terminal/ CE=Chip enable terminal. Selection terminal for using of two. Address will be shifted as per below table when switching S terminal to Lor											
s			Name of Item	S Terminal		Add	ress							
ľ	'		Name of Rom	O TOTTIMILA	A0	A1	A2	A3						
			LC78212	L	0	1	0	1	ĺ					
			2070212	Н	1	1	0	1	j					
RES	Reset terminal. Condition of analog switch is not fixed at the time of turning on the power. When shift this terminal to L, all analog switches become OFF.													

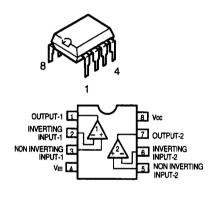
NJU9702 (IC202)



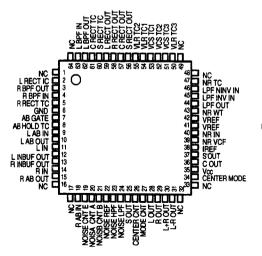
BA4558F (IC101, 103)



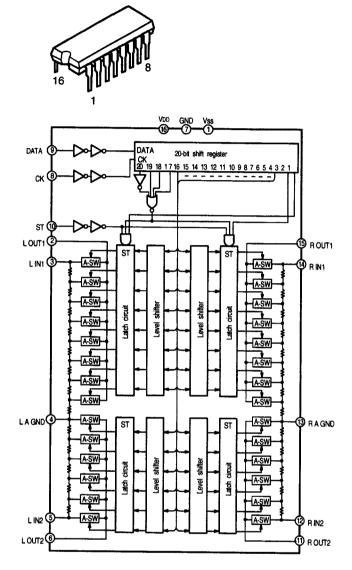
BA4558 (IC261, 263) BA15218 (IC451)

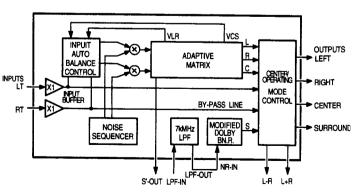


NJM2177AF (IC201)

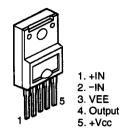


TC9176P (IC266)

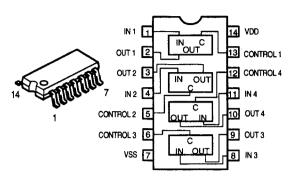




SI-18752 (IC571,572)

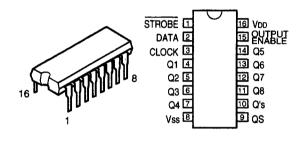


BU4066BCF (IC203, 205)

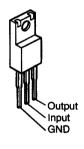


BU4066BC (IC601) IN1 1 14 VDD OUT 1 2 13 CONTROL 1 OUT 2 12 CONTROL 4 Z OUT 11 IN 4 IN 2 4 CONTROL 2 5 10 OUT 4 CONTROL 3 6 9 OUT 3 vss 7



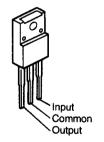


NJM7912FA (IC574)

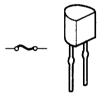


KIA7806PI (IC575)

8 #N3

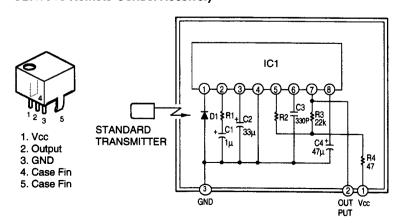


IC PROTECTOR ICP-N20 (PR505, 506)



OTHER

SBX1910 Remote Control Receiver)



: CX20106A Chip

: PIN Photo Diode Chip

C1,C2,C4: Aluminum Electrolytic Capa;itor

СЗ SL Characteristic ±5% R1 Gain control resistor

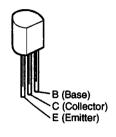
: for control resistor (Using±1%)

R (Other than above items)

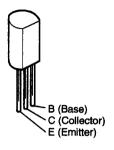
: ±5%

TRANSISTORS

2SA970 (BL) 2SA988 (E/F) 2SA1015 (GR) 2SC1815 (Y), (GR) 2SC1841 (E/F) 2SC2058 (Q) 2SC2878 (A/B) 2SC1841 (E/F)

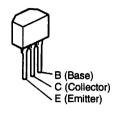


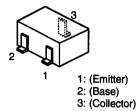
2SB647A (C) 2SD667A (C)



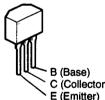
2SC2458

2SA1037K (S/R) 2SC2412K (S)





DTA114ES DTC114TS **DTC114ES** DTC144TS **DTC323TS**

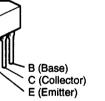


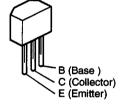
2SA933S (S) 2SC1740 (S)

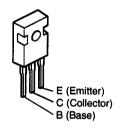
2SA1633

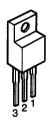
2SC4278

NJM7812FA (S)



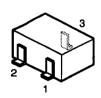




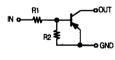


1. OUT 2. GND 3. IN

DTA114EKA DTC143EKA DTC144EKA

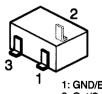


1: GND/Emitter 2: In/Base 3: Out/Collector DTA114EKA



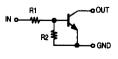
• OUT

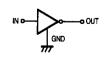
DTC143EK DTC144EK



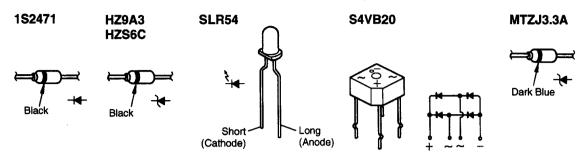
1: GND/Emitter 2: Out/Collector 3: In/Base

DTC143EKA DTC144EKA

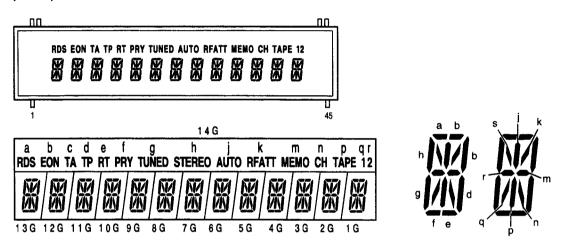




• DIODES (included LED)



● FLD (FL701)



PIN CONNECTION

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Connection	F1	F1	NP	ΝP	NC	P16	P15	P14	P13	P12	P11	P10	P9	P8	P 7	P6	P 5	P4	Р3	P2	P1	14G	13G	12G						
Pin No.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	N	ote			2										
Connection	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	ΝP	F2	F2			3) 1	VC			- No	con	nect						
																•				14G										

ANODE CONNECTION

	14G	13G	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	RDS	a 1	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1	a 1
P2	EON	a2	a2	a2	a2	a2	a2	a2	a2	a2	a2	a2	a2	a2
P 3	TA	b	b	b	b	b	b	ь	b	b	b	b	b	b
P4	TP	С	С	С	С	С	С	С	С	С	С	С	С	C
P5	RT	d2	d2	d2	d2	d2	d2	d2	d2	ď2	d2	d2	d2	d2
P6	PTY	d1	d1	d1	d1	d1	d1	d1	d1	d1	d1	d1	d1	d1
P7	TUNED	е	е	e	е	е	е	е	е	е	е	е	e	е
P8	STEREO	f	f	f	f	f	f	f	f	f	f	f	f	f
P9	AUTO	j	j	j	j	j	j	j	i	j	j	j	j	j
P10	RFATT	k	k	k	k	k	k	k	k	k	k	k	k	k
P11	MEMO	m	m	m	m	m	m	m	m	m	m	m	m	m
P12	СН	n	n	n	n	n	n	n	п	n	n	n	n	n
P13	TAPE	р	р	р	р	р	р	р	р	р	р	Р	р	р
P14	1	Г	r	r	r	r	r	r	r	r	r	r	r	r
P15	2	g	9	9	g	g	g	9	g	g	9	g	g	g
P16		h	h	h	h	h	h	ħ	h	h	h	h	h	h

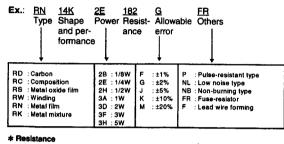
NOTE FOR PARTS LIST

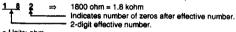
- Part indicated with the mark "O" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.) WARNING:

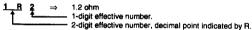
Parts marked with this symbol Λ have critical characteristics.

Use ONLY replacement parts recommended by the manufacturer.

Resistors

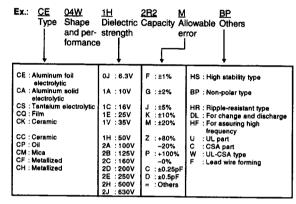




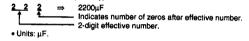


Units: ohm

Capacitors



* Capacity (electrolyte only)



* Capacity (except electrolyte)

• Units: μF.

When the dielectric strength is indicated in AC, "AC" is included after the dieelectric strength value.

PARTS LIST OF P.W.B. UNIT ASS'Y

MAIN P.W.B. ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
SEMICON	DUCTORS	GROUP		TR415	274 0060 007	Transistor 2SD667A(C)	
IC451	263 0615 902	IC BA15218F		TR417	272 0053 005	Transistor 2SB647(C)	
			l.	TR419	273 0430 003	Transistor 2SC4278(E/F)	
IC571	263 0855 005	IC SI18752		TR421	271 0276 009	Transistor 2SA1633(E/F)	
IC572	263 0855 005			TR423	273 0235 020	Transistor 2SC1841(E/F)	
IC573		IC NJM7812FA		TR442	UDM D010 434	Transistor DTA114EKA	
IC574	200 00 10 00 1	IC NJM7912FA		TR443	269 0048 904	Transistor DTC143EK	
IC575	9I C P024 12	IC KIA7806PI		TR481	273 0384 900	Transistor 2SC2412K(Q/R)	
10070	000 1 004 12	10 14111 0001 1		TR482	273 0384 900	Transistor 2SC2412K(Q/R)	
IC601	262 1875 007	IC BU4066BCF		TR483	273 0384 900	Transistor 2SC2412K(Q/R)	
10001	202 1070 007	10 004000001		TR484	273 0384 900	Transistor 2SC2412K(Q/R)	
IC913	01 C K080 01B	IC BU4094BCF		TR485		Transistor 2SC2412K(Q/R)	
C914		IC BU4094BCF	1	TR486	i	Transistor 2SC2412K(Q/R)	
10314	9EC K009 01K	10 B04034BCF		TR487		Transistor 2SA1037K(Q/R)	
TD204	071 0004 016	Transistor OCA070/DI		TR488		Transistor DTC144EK	
TR301		Transistor 2SA970(BL)		11,400	200 000 7 00 1	Transistor Di Orașelic	
TR302	l :	Transistor 2SA970(BL)		TR531	273 0384 900	Transistor 2SC2412K(Q/R)	
TR303	1	Transistor 2SA970(BL)		TR551	!	Transistor 2SC2412K(Q/R)	
TR304	i	Transistor 2SA970(BL)		10331	273 0364 900	Halisisioi 23024 IZN(Q/H)	
TR305	1	Transistor 2SA988(E/F)		TDC04	070 0017 006	Transister OCCO450/DL)	
TR306		Transistor 2SA988(E/F)		TR601	1	Transistor 2SC2458(BL)	
TR307		Transistor 2SC1841(E/F)		TR602	1	Transistor 2SC2458(BL)	
TR308	i	Transistor 2SC1841(E/F)		TR603	1	Transistor 2SA1015(GR)	i
TR309		Transistor 2SC1841(E/F)		TR604	į.	Transistor 2SA1015(GR)	
TR310	273 0235 020	1		TR651		Transistor 2SC2878(B)	
TR311	273 0235 020	Transistor 2SC1841(E/F)		TR653	2/3 0253 028	Transistor 2SC2878(B)	
TR312	273 0235 020	` '		TD004	000 0040 004	T	
TR313		Transistor 2SC1815(GR)		TR801		Transistor DTC143EK	
TR314	273 0325 008	Transistor 2SC1815(GR)		TR802		Transistor 2SC2412K(Q/R)	
TR315	274 0060 007	1		TR803	UDM D010 434	Transistor DTA114EKA	
TR316	1	Transistor 2SD667A(C)			UD4 D040 404		
TR317	i	Transistor 2SB647A(C)		TR903	1	Transistor DTA114EKA	
TR318	272 0053 005	Transistor 2SB647A(C)		TR904	UDM D010 434	Transistor DTA114EKA	
TR319	273 0430 003	Transistor 2SC4278(E/F)					
TR320	273 0430 003	Transistor 2SC4278(E/F)		D301		Diode 1SS133	
TR321	271 0276 009	Transistor 2SA1633(E/F)		D302		Diode 1SS133	
TR322	271 0276 009	Transistor 2SA1633(E/F)		D303	1	Diode 1SS133	
TR323	273 0235 020	Transistor 2SC1841(E/F)		D304	276 0401 905	Diode 1SS133	İ
TR324	273 0235 020	Transistor 2SC1841(E/F)		D305	276 0401 905	Diode 1SS133	
TR325	271 0131 021	Transistor 2SA988(E/F)		D306	276 0401 905	Diode 1SS133	
TR351	271 0131 021	Transistor 2SA988(E/F)		D307	9L2 3312 32M	Diode 1S2471B	
TR352	271 0131 021	Transistor 2SA988(E/F)		D308	9L2 3312 32M	Diode 1S2471B	•
TR353	273 0384 900	Transistor 2SC2412K(Q/R)		D309	9L2 3312 32M	Diode 1S2471B	
TR354	271 0238 908	Transistor 2SA1037K(Q/R)		D310	9L2 3312 32M	Diode 1S2471B	
TR355	9L2 3286 25	Transistor 2SB647(C)		D311	276 0401 905	Diode 1SS133	
				D312	276 0401 905	Diode 1SS133	
TR401	271 0094 016	Transistor 2SA970(BL)		D351	276 0338 007	Diode S4VB20	
TR403		Transistor 2SA970(BL)	}	D352	276 0401 905	Diode 1SS133	
TR405		Transistor 2SA988(E/F)					
TR407	273 0235 020	` '		D401	276 0401 905	Diode 1SS133	
TR409	273 0235 020			D403	ŧ	Diode 1SS133	
TR411	273 0235 020	1 ' '		D405	1	Diode 1SS133	
TR413	273 0325 901	, ,		D407	į.	Diode 1S2471B	
111710							

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
D409	9L2 3312 32M	Diode 1S2471B		R315	241 2380 963		RD14S2E222J(NB)
D411	276 0401 905	Diode 1SS133		R316	241 2380 963		RD14S2E222J(NB)
D441	276 0401 905	Diode 1SS133		R317	241 2380 963		RD14S2E222J(NB)
D481	276 0401 905			R318	241 2380 963		RD14S2E222J(NB)
D482	276 0401 905	Diode 1SS133		R319	241 2315 967		RD45B2E680JNB-FR
D483	276 0401 905	Diode 1SS133		R320	241 2315 967		RD45B2E680JNB-FR
D484	1	Diode SDDC-1SS355		R321	241 2377 976	(·)	RD14S2E131J(NB)
		100000		R322	241 2377 976		1
D571	276 0401 905	Diode 1SS133		R323	241 2377 976		RD14S2E131J(NB)
D572	276 0338 007			R324	241 2377 976	* * *	RD14S2E131J(NB)
D573		Diode 1SS133		R325	241 2311 910	Chip 5.6kohm	RD14S2E131J(NB)
		2.000 100 100		R326		· •	RNC562J1-16
D616	276 0401 905	Diode 1SS133		R327		Chip 5.6kohm	RNC562J1-16
D617		Diode 1SS133		R328		Chip 75kohm	RMC73M-1F753JR
1	270 0401 000	Diode 100100		R329		Chip 75kohm	RMC73M-1F753JR
D801	9L2 3980 64	Diode IN4001-U01	İ			Carbon 9.1kohm	RDL-912J1-16LQ
D802	276 0401 905	•		R330 R331	241 2270 000	Carbon 9.1kohm	RDL-912J1-16LQ
D803		Diode 1SS133		R331	241 2378 920		RD14S2E221J(NB)
D804		Diode 1SS133		R333	241 2378 920		RD14S2E221J(NB)
5007	270 0401 303	Diode 100103		R334	244 2043 982		RE-R22J0001N
D905	276 0401 905	Diode 1SS133		11	244 2043 982		RE-R22J0001N
D912	276 0401 905			R335	244 2043 982		RE-R22J0001N
5312	270 0401 303	Diode 193199		R336	244 2043 982		RE-R22J0001N
ZD301	DB9 00 0 112	Zener diode HZS6C2L		R337	244 2043 982		RE-R22J0001N
ZD302		Zener diode HZS6C2L		R338	244 2043 982		RE-R22J0001N
ZD351	1	Zener diode HZS27-3L		R339	244 2043 982		RE-R22J0001N
20001	3112 0032 20	Zerier diode rizoz/-oc		R340	244 2043 982		RE-R22J0001N
ZD401	DB8 00-0 112	Zener diode HZS6C2L		R341		Chip 20kohm	RMC73M-1F203JR
25401	DD0 00-0 112	Zener diode rizgoozt		R342 R343		Chip 20kohm	RMC73M-1F203JR
ZD551	DB8 00-0 112	Zener diode HZS6C2L		R344		Chip 20kohm	RMC73M-1F203JR
ZD571		Zener diode HZS6C2L		! !		Chip 20kohm	RMC73M-1F203JR
1 2007	000 00-0 112	Zener diode HZOOOZL		R345		Chip 10kohm	RNC103J1-16
ZD801	276 0634 905	Zener diode MTZJ3.3A		R346 R347		Chip 10kohm	RNC103J1-16
20001	270 0004 303	Zenei diode Wi ZJJ.JA		1 8		Chip 270kohm	RNC274J1-16
TH531	9LC J001 51	PTH9M04B222TS2F333		R348	044 0407 000	Chip 270kohm	RNC274J1-16
111001	9LC 3001 31	P1 1191VIU40222132F333		R349	241 2407 082	Carbon film 2.2ohm	RD14S1J2R2J
				R350	241 2407 082	Carbon film 2.2ohm	RD14S1J2R2J
				R351		Chip 22kohm	RNC223J1-16
RESISTO	RS GROUP			R352		Chip 22kohm	RNC223J1-16
R301		Chip 10kohm	RNC103J1-16	R353		Chip 20kohm	RMC73M-1F203JR
R302		Chip 10kohm	RNC103J1-16	R354		Chip 20kohm	RMC73M-1F203JR
R303		Chip 470ohm	RNC471J1-16	R358		Chip 10kohm	RNC103J1-16
R304		Chip 470ohm	RNC471J1-16	R359		Chip 10kohm	RNC103J1-16
R305		Carbon film 12kohm	RD14S1J123JQ	R361	244 2043 050	Metal oxide 470ohm 1W	RS08B3A471JS
R306		Carbon film 12kohm	RD14S1J123JQ	R362	244 2043 050	Metal oxide 470ohm 1W	RS08B3A471JS
R307		Chip 30ohm	RMC73M-1F300JR	R371	244 2043 982		RE-R22J0001N
R308		Chip 30ohm	RMC73M-1F300JR	R372	244 2043 982	1	RE-R22J0001N
R309		Carbon film 10kohm	RD14S1J103JQ	R373	244 2043 982		RE-R22J0001N
R310		Carbon film 10kohm	RD14S1J103JQ	R374	244 2043 982	j	RE-R22J0001N
R311		Chip 47ohm	RNC470J1-16	R375		Chip 910ohm	RMZ73M-1F911JR
R312		Chip 47ohm	RNC470J1-16	R376		Chip 560kohm	RNC564J1-16
R313		Chip 430ohm	RMC73M-1F431JR	R377		Chip 22kohm	RNC223J1-16
R314		Chip 430ohm	RMC73M-1F431JR	R378		Chip 470ohm	RNC471J1-16
				L			

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R379		Chip 3.6kohm	RMC73M-1F362JR	R465		Chip 220ohm	RNC221J1-16
R380		Chip 470ohm	RNC471J1-16	R466		Chip 220ohm	RNC221J1-16
R381		Chip 560kohm	RNC564J1-16	R467		Chip 11kohm	RMC73M-1F113JR
R383	241 2400 063	Carbon 7.5kohm	RDL-752J1-16LQ	R468		Chip 11kohm	RMC73M-1F113JR
R384	241 2315 967	Metal film 68ohm 1/4W	RN45B2E680JB-FR	R469		Chip 1.8kohm	RNC182J1-16
R397	241 2402 003	Carbon 30kohm	RDL-303J1-16LQ	R470		Chip 1.8kohm	RNC182J1-16
R398	241 2402 003	Carbon 30kohm	RDL-303J1-16LQ	R471		Chip 6.8ohm	RNC6R8J1-16
				R472		Chip 6.8ohm	RNC6R8J1-16
R401		Chip 10kohm	RNC103J1-16	R473		Chip 200ohm	RMC73M-1F201JR
R402		Chip 1.5kohm	RNC152J1-16	R474		Chip 200ohm	RMC73M-1F201JR
R403		Carbon film 12kohm	RD14S1J123JQ	R475		Chip 39ohm	RNC390J1-16
R404		Chip 100ohm	RNC101J1-16	R476		Chip 39ohm	RNC390J1-16
R405		Carbon film 10kohm	RD14S1J103JQ	R477		Chip 100ohm	RNC101J1-16
R406		Chip 47ohm	RNC470J1-16	R478		Chip 100ohm	RNC101J1-16
R407		Chip 430ohm	RMC73M-1F431JR	R481	241 2321 087	Carbon 120ohm	RD14S2E121J(NB)
R408	241 2380 963	Carbon 2.2kohm	RD14S2E222J(NB)	R482	241 2321 087	Carbon 120ohm	RD14S2E121J(NB)
R409	241 2380 963	Carbon 2.2kohm	RD14S2E222J(NB)	R484	241 2021 007		RNC103J1-16
R410	241 2315 967	Metal film 68ohm 1/4W	RN45B2E680JNB-FR	R485		Chip 10kohm	
R411	241 2377 976	Carbon 130ohm		R486		Chip 4.7kohm	RNC4R7J1-16
R412	241 2377 976	Carbon 130ohm	RD14S2E131J(NB)			Chip 10kohm	RNC103J1-16
R413	241 23/1 9/0	Chip 6kohm	RD14S2E131J(NB) RNC562J1-16	R488		Chip 10kohm	RNC103J1-16
		'		R489		Chip 47ohm	RNC470J1-16
R414		Chip 75kohm	RMC73M-1F753JR	R490		Chip 4.7kohm	RNC472J1-16
R415	044 0070 000	Carbon 9.1kohm	RDL-912J1-16LQ	R491		Chip 1kohm	RNC102J1-16
R416	241 2378 920	Carbon 220ohm	RD14S2E221J(NB)	R492		Chip 10kohm	RNC103J1-16
R417	244 2043 982	0.22ohm 1W	RE-R22J0001N	R493		Chip 47kohm	RNC473J1-16
R418	244 2043 982		RE-R22J0001N	R494		Chip 47kohm	RNC473J1-16
R419	244 2043 982	0.22ohm 1W	RE-R22J0001N	R496		Chip 4.7kohm	RNC472J1-16
R420	244 2043 982	0.22ohm 1W	RE-R22J0001N	R497		Chip 4.7kohm	RNC472J1-16
R421		Chip 20kohm	RMC73M-1F203JR	R498		Chip 4.7kohm	RNC472J1-16
R422		Chip 20kohm	RMC73M-1F203JR	R499		Chip 47ohm	RNC470J1-16
R424		Chip 270kohm	RNC274J1-16	_			
R425	241 2393 002	Carbob 4.7ohm	RD14S1J4R7J	R571		Chip 22kohm	RNC223J1-16
R426		Chip 2.2ohm	RNC223J1-16	R572		Chip 22kohm	RNC223J1-16
R427		Chip 20kohm	RMC73M-1F203JR	R573		Chip 1.2kohm	RNC122J1-16
R428		Chip 10kohm	RNC103J1-16	R574		Chip 1.2kohm	RNC122J1-16
R429		Chip 10kohm	RNC103J1-16	R575	241 2402 003	Carbon 30kohm	RDL-303J1-16LQ
R431	244 2051 987		RE-4R7J0001N	R576	241 2402 003	Carbon 30kohm	RDL-303J1-16LQ
R433		4.7ohm 1W	RE-4R7J0001N	R577	241 2393 002	Carbon film4.7ohm	RD14S1J4R7J
R434	1	4.7ohm 1W	RE-4R7J0001N	R578	241 2393 002	Carbon film4.7ohm	RD14S1J4R7J
R437	1	Chip 10kohm	RNC103J1-16	R579	244 2051 987	4.7ohm 1W	RE-4R7J0001 N
R438		Chip 13kohm	RMC73M-1F133JR	R580	244 2051 987	4.7ohm 1W	RE-4R7J0001N
R442	241 0185 005	Carbon film 1kohm 1/2W (NB)	RD14S2H102JB	R581		Chip 20kohm	RMC73M·1F203JR
R443		Chip 2.2kohm	RNC222J1-16	R582	•	Chip 20kohm	RMC73M·1F203JR
R445		Chip 2.2kohm	RNC222J1-16	R583	241 2321 087	Carbon 120ohm	RD14S2E121 J(NB)
R451		Chip 470ohm	RNC471J1-16	R584		Chip 390kohm	RNC394J1-16
R452		Chip 470ohm	RNC471J1-16	R585		Chip 10kohm	RNC103J1-16
R453		Chip 62kohm	RMC73M-1F623JR	R586		Chip 20kohm	RNC73M-1F203JR
R454		Chip 62kohm	RMC73M-1F623JR	R587		Chip 4.7kohm	RNC472J1-16
R457		Chip 62kohm	RMC73M-1F623JR			•	
R458		Chip 62kohm	RMC73M-1F623JR	R601	241 2395 097	Carbon 75ohm	RDL-750J1-16LQ
R463		Chip 1.2kohm	RNC122J1-16	R603	241 2395 097		RDL-750JI-16LQ
R464		Chip 1.2kohm	RNC122J1-16	R604	241 2400 995	* *	RDL-103JI-16LQ

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R608	241 2400 979	Carbon 8.2kohm	RDL-822J1-16LQ	CAPACIT	ORS GROU	P	
R611	241 2400 979	Carbon 8.2kohm	RDL-822J1-16LQ	C301	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL)
R612	241 2400 979	Carbon 8.2kohm	RDL-822J1-16LQ	C302	254 4256 004	, , , , , ,	CE04W1E100MB(SSL)
R613	241 2400 995	Carbon 10kohm	RDL-103J1-16LQ	C303		Ceramic chip 220pF/50V	CC73MSL1H221J
R614	241 2400 995	Carbon 10kohm	RDL-103J1-16LQ	C304		Ceramic chip 220pF/50V	CC73MSL1H221J
R615	241 2397 008	Carbon 220ohm	RDL-221J1-16LQ	C305		Ceramic chip 220pF/50V	CC73MSL1H221J
R616	241 2397 008	Carbon 220ohm	RDL-221J1-16LQ	C306		Ceramic chip 220pF/50V	CC73MSL1H221J
R617	241 2398 007	Carbon 620ohm	RDL-621J1-16LQ	C307		Ceramic chip 6800pF/50V	CK73MB1H682J
R618	241 2398 007	Carbon 620ohm	RDL-621J1-16LQ	C308		Ceramic chip 6800pF/50V	1
R619	241 2397 008	Carbon 220ohm	RDL-221J1-16LQ	C309		Ceramic chip 100pF/50V	CK73MB1H682J
R620	241 2397 008	Carbon 220ohm	RDL-221J1-16LQ	C310		· '	CC73MSL1H101J
R621	241 2395 097	Carbon 75ohm	RDL-750J1-16LQ	C311	254 4256 059	Ceramic chip 100pF/50V	CC73MSL1H101J
R622	241 2395 097	Carbon 75ohm	RDL-750J1-16LQ	C312	254 4256 059	Electrolytic 220µF/25V	CE04W1E221MB(SSL)
R623	241 2400 995	Carbon 10kohm	RDL-103J1-16LQ	C312	254 4256 059	Electrolytic 220µF/25V	CE04W1E221MB(SSL)
R624	241 2400 995	Carbon 10kohm	RDL-103J1-16LQ	C313	l .	'	CQ92M1H102KB
R625	241 2400 995	Carbon film 10kohm	RDL-103J1-16LQ	1	ł	Mylar film 1000pF/50V	CQ92M1H102KB
R626	241 2400 995	Carbon 10kohm	RDL-103J1-16LQ	C315	ļ	Mylar film 1000pF/50V	CQ92M1H102KB
R677	2112100000	Chip 2.2kohm	RNC222J1-16	C316	255 4199 986	Mylar film 1000pF/50V	CQ92M1H102KB
R680		Chip 15kohm	RNC153J1-16	C317		Ceramic 18pF/500V	CC45SL2H180KB
R681		Chip 15kohm	RNC153J1-16	C318	054 4000 045	Ceramic D36918pF/500V	CC45SL2H180KB
R682		Chip 15kohm	RNC153J1-16	C319	l.	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
R683		Chip 910ohm	RMC73M-1F911JR	C320		Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
R684		Chip 15kohm	RNC153J1-16	C321		Mylar film 0.01µF/50V	CQ92M1H103KB
R685		Chip 910ohm	RMC73M-1F911JR	C322		Mylar film 0.01µF/50V	CQ92M1H103KB
R686		Chip 2.2kohm	RNC222J1-16	C325		Ceramic 220pF/500V	CK45B2H221KB
11000		Orap Z.ZKOTIIT	THOEZESITO	C326	253 1028 009	F	CK45B2H221KB
R739		Chip 2.2kohm	RNC222J1-16	C327	l .	Mylar film 0.01µF/50V	CQ92M1H103KB
R740		Chip 2.2kohm	RNC222J1-16	C331	254 4260 074	, , , , , , , , , , , , , , , , , , , ,	CE04W1H4R7MB(SSL)
R747		Chip 2.2kohm	RNC222J1-16	C332	254 4260 074	, ,	CE04W1H4R7MB(SSL)
R748		Chip 6.8kohm	RNC682J1-16	C333	į.	Electrolytic 4.7µF/50V	CE04W1H4R7MB(SSL)
R749		Chip 6.8kohm	RNC682J1-16	C334	254 4260 074	, , ,	CE04W1H4R7MB(SSL)
		omp contin	1111000201-10	C351	9LA L004 71	8200µ/50v	8200µ/50v
R802		Chip 10kohm	RNC103J1-16	C352	9LA L004 71	8200µ/50v	8200µ/50v
R803		Chip 1kohm	RNC102J1-16	C355	ł	Mylar film 0.1μF/100V	MYL-ECQB2104Kf3
R804		Chip 1kohm	RNC102J1-16	C356	1	Mylar film 0.1µF/50V	CQ92M1H104KB
R805		Chip 1kohm	RNC102J1-16	C357	i	Mylar film 0.1µF/50V	CQ92M1H104KB
R806		Chip 4.7kohm		C358		Electrolytic 1µF/50V	CE04W1H1R0MB(SSI)
R807		Chip 4.7kohm	RNC472J1-16 RNC472J1-16	C359	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSI)
R808		Chip 220kohm	RNC224J1-16	C365		Ceramic 0.01μF	CCT103M16D3
R809		Chip 10kohm	1 1	C366		Ceramic 0.01μF	CCT103M16D3
R810		Chip 10kohm	RNC103J1-16	C399	255 1134 054	Mylar film 0.1μF/50V	CQ92M1H104KB
11010		Onip rokonin	RNC103J1-16				
VR301	OLA MOOT STD	Semi fixed resistor 5 kohm	DT6.3HE00T	C401	254 4256 004	Electrolytic 10μF/25V	CE04W1E100MB(SSI)
VR301	l i		RT6-3H502T	C402		Ceramic chip 2200pF/50V	CK73MSL1H222K
V17002	SEA MARCI DILL	Semi fixed resistor 5 kohm	RT6-3H502T	C403		Ceramic chip 220pF/50V	CC73MSL1H221J
VR401	OL V WOO4 64D	Somi fived register 5 km	DTC SUFFORT	C404		Ceramic chip 0.012µF/50V	CK73MB1H123K
VR401 VR451		Semi fixed resistor 5 kohm	RT6-3H502T	C405		Ceramic chip 100pF/50V	CC73MSL1H101J
	9LA Y001 81	Variable resistor 100 kohm	BALANCE	C406	254 4256 059	Electrolytic 220µF/25V	CE04W1E221MB(SSI
VR452	9LA Y001 82	Variable resistor 30 kohm	BASS	C407	Į	Mylar film 1000pF/50V	CQ92M1H102KB
VR453	9LA Y001 83	Variable resistor 10 kohm	TREBLE	C408	255 4199 986	Mylar film 1000pF/50V	CQ92M1H102KB
				C409		Ceramic chip 33pF/500V	CC45SL2H330KB
				C410	l	Electrolytic 1µF/50V	CE04W1H1R0MB(SSI)
			 	C411	255 4213 972	Mylar film 0.01µF/50V	CQ92M1H103KB
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Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
254 4260 074	Electrolytic 4.7µF/50V	CE04W1H4R7MB(SSL)	C590		Ceramic chip 0.01µF/50V	CK73MB1H103K
254 4260 074	Electrolytic 4.7µF/50V	CE04W1H4R7MB(SSL)	C591		Ceramic chip 0.01µF/50V	CK73MB1H103K
253 1028 009	Ceramic 220pF/500V	CK45B2H221KB	C592	254 4256 033	Electrolytic 47µF/25V	CE04W1E470MB(SSL)
255 1134 054	Mylar film 0.1µF/50V	CQ92M1H104KEB	C593	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL)
	Ceramic chip 0.01µF	CCT103M16D3	C594		Ceramic chip 0.01µF/50V	CK73MB1H103K
255 4224 945	Mylar film 0.1µF/50V	CQ92M1H104KEB				
255 4224 945	Mylar film 0.1µF/50V	CQ92M1H104KEB	C601	254 4256 033	Electrolytic 47µF/25V	CE04W1E470MB(SSL)
254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL)	C602	254 4256 033	Electrolytic 47µF/25V	CE04W1E470MB(SSL)
254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL)	C604	254 4254 080	Electrolytic 1000µF/16V	CE04W1C102MF
	Ceramic chip 100pF/50V	CC73MSL1H101J	C605		Ceramic chip 5pF	CCT5R050D3
	Ceramic chip 100pF/50V	CC73MSL1H101J	C606		• •	CCT5R050D3
254 4256 033	Electrolytic 47µF/25V	CE04W1E470MB(SSL)	C607	254 4252 079	. ,	CE04W1A102MF
254 4256 033	•	, ,		254 4252 079	, ,	CE04W1A102MF
	• •	, , ,	li .		,	CK73MB1H103K
	· ·		1		· ·	CK73MB1H103K
256 1034 004	, ,	1	1	254 4256 046		CE04W1E101MB(SSL)
1		1	1		'	CE04W1E101MB(SSL)
1	'	i i		204 4200 040		CK73MB1H103K
1 1	• •	' '1	0077		Obtainic Grip 0.01pt /304	OK SWIDTH FOOK
204 4200 040	, ,		C901	254 4250 094	Electrolytic 2200E/6 2V	CE04W0J332M
	' '	1		234 4230 004	•	CK73MB1H103K
	' '	1	1		· ·	1
	, ,	<u> </u>		254 4060 074		CK73MB1H103K
054 4106 000	' '	1				CE04W1H4R7MB(SSL)
	' '			1	,	CQM-124J5O0R
254 4196 928		, ,	•	254 4250 039	• •	CE04W0/221MB(SME)
	, ,	1	C807		Ceramic chip 0.01µF/50V	CK73M81H1 03K
05 / 4050 000		1			_, , , , , , , , , , , , , , , , , , ,	
	•	` ' 1	C921	254 4250 039	Electrolytic 47µF/25V	CE04W1E470MB(SSL)
254 4256 042	1					
	· ·	1	OTHER F	ARTS GRO	JP	
	Ceramic chip 0.1µF/25V	CK73MF1E104Z		T		
					<u>.</u>	L=80
	· · ·		1			L-00
	'	· · ·			•	
254 4260 058	' '	1 ' 1	1			
	i	i L	1			
	· '		1			
	Ceramic chip 100pF/50V	CC73MSL1H101J				
	Ceramic chip 100pF/50V	CC73MSL1H101J				
254 4256 033	Electrolytic 47µF/25V	CE04W1E470MB(SSL)				
254 4256 033	Electrolytic 47µF/25V	CE04W1E470MB(SSL)			i	
254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)				
254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)				
254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)	Ł			L=100
254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)	li .		· ·	
255 1134 054	Mylar film 0.1µF/50V	CQ92M1H104KEB	1	01 5 5000		L=350
255 1134 054	Mylar film 0.1µF/50V	CQ92M1H104KEB	CN025A	9LE D007 92	FFC Connector	
256 1034 076	Mylar film 0.1µF/100V	MYL-ECQB2104KF3				
I	1 .	CE04W1F222	•	}		
	1	CE04W1F222	- JK003	9LE R002 26	2P USPIN Jack	
254 4256 004	1 .	CE04W1E100MB(SSL)	1			
204 4200 004			JK502			
	254 4260 074 253 1028 009 255 1134 054 255 4224 945 255 4224 945 254 4256 004 254 4256 033 254 4256 033 254 4256 045 254 4260 045 254 4260 045 254 4260 058 254 4260 058 254 4260 058 254 4260 058 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045 254 4260 045	254 4260 074 Electrolytic 4.7μF/50V 253 1028 009 Ceramic 220pF/500V 255 1134 054 Mylar film 0.1μF/50V 255 4224 945 Mylar film 0.1μF/50V 254 4256 004 Electrolytic 10μF/25V 254 4256 004 Electrolytic 10μF/25V 254 4256 033 Electrolytic 47μF/25V 254 4256 034 Electrolytic 47μF/25V 254 4260 045 Electrolytic 1μF/50V 254 4260 045 Electrolytic 1μF/50V 254 4196 928 Electrolytic 1μF/50V 254 4256 033 Electrolytic 1μF/50V 254 4260 045 Electrolytic 1μF/50V 254 4260 045 Electrolytic 1μF/50V 254 4196 928 Electrolytic 1μF/50V 254 4256 033 Electrolytic 1μF/50V 254 4256 033 Electrolytic 1μF/50V 254 4256 033 Electrolytic 0.33μF/50V 254 4256 033 Electrolytic 330μF/6.3V 254 4256 042 Electrolytic 330μF/6.3V 254 4250 058 Electrolytic 320μF/50V 254 4256 035 Electrolytic 330μF/6.3V 254 4260 058 Electrolytic 2.2μF/50V 254 4260 058 Electrolytic 2.2μF/50V 254 4260 058 Electrolytic 2.2μF/50V 254 4260 058 Electrolytic 300μF/6.3V 254 4260 058 Electrolytic 2.2μF/50V 254 4260 058 Electrolytic 320μF/50V 254 4260 058 Electrolytic 47μF/25V 254 4260 058 Electrolytic 47μF/25V 254 4260 045 Electrolytic 47μF/25V 254 4260 045 Electrolytic 47μF/25V 254 4260 045 Electrolytic 1μF/50V	254 4260 074 Electrolytic 4.7μF/50V CE04Wi14R7MB(SSL) 253 1028 009 Ceramic 220pF/500V CK45B2H221KB 255 1134 054 Mylar film 0.1μF/50V CQ92M1H104KEB 255 4224 945 Mylar film 0.1μF/50V CQ92M1H104KEB 254 4256 004 Electrolytic 10μF/25V CC92M1H104KEB 254 4256 004 Electrolytic 10μF/25V CE04W1E100MB(SSL) 254 4256 033 Electrolytic 47μF/25V CE04W1E470MB(SSL) 256 1034 004 Mylar film 0.18μF CC94W1E470MB(SSL) 256 1034 004 Mylar film 0.18μF CQM-184J500R 256 1034 004 Mylar film 0.18μF CQM-184J500R 256 1034 004 Mylar film 0.18μF CQM-184J500R 254 4260 045 Electrolytic 1μF/50V CCM-184J500R 254 4260 045 Electrolytic 0.33μF/50V CCM-184J563K 254 4196 928 Electrolytic 0.33μF/50V CCM-184J6B3(SL) 254 4256 0	254 4260 074 Electrolytic 4.7μF/50V CE04W1H4R7MB(SSL) C593 C593 1028 009 Ceramic 220pF/500V CK45B2H221KB C592 C593 C594 254 4260 074 Electrolytic 4.7μF/50V CE04W1H4R7MB(SSL) C591 C592 254 4256 033 C27min chip 0.1μF/50V CO92M1H104KEB C593 C594 254 4280 074 Electrolytic 4.7µF/50V CEOMW1HAR7MB(SL) CS91 CS92 254 4256 033 Electrolytic 4.7µF/50V CRAMB 1150 CS93 254 4256 034 Electrolytic 4.7µF/50V CRAMB 1150 CS94 CS		

FL P.W.B. ASS'Y

Def No			T _	FL P.W.E			***************************************
Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
JK601	9LE H002 33	4P USPIN Jack			DUCTORS		
L301	9L2 2273 63	Audio trap coil		IC001	263 0891 001		
L302	9L2 2273 63	Audio trap coil		IC002	9LC P030 61	1	
LOOL	912 22/3 03	Addio trap con		IC003	262 2348 009	IC LM7001	
L401	9L2 2273 63	Audio trap coil		IC101	263 0672 903	IC BA4558F	
				IC102	9LC P030 51	IC LC78212	
L571	9L2 2273 63	Audio trap coil		IC103	263 0672 903	IC BA4558F	
L572	9L2 2273 63	Audio trap coil					
RL481	9L2 6413 21	Speaker relay	DC24V	IC201	i .	IC NJM2177AF	
RL482	9L2 6413 21	Speaker relay	DC24V	IC202	l .	IC NJU9702G	
TIETOL	302 041321	Speaker relay	D024V	IC203		IC BU4066BCF	
RL571	9L2 6413 21	Speaker relay	DC24V	IC205		IC BU4066BCF	
112071	362 0410 21	Opeaner relay	DG24V	IC261	263 0672 903		
SW001	9LF E001 81	Speaker switch		IC263	263 0672 903		
011001	92: 200101	Speaker Switch		IC265	263 0905 007		
SP003	9LE U004 01	Speaker terminal		IC266	262 0625 009	IC TC9176P	
		•		IC701	262 2455 002	IC TMP87CM71F-6668	
SP301	9LE U003 81	Speaker terminal		IC702		IC SBX1910-52	
SP501	01 5 11000 96	Speaker terminal					
3F301	are 0000 90	Speaker terminal		TR002	L	Transistor 2SC2058S(Q)	
TP-L		OD MV Dings at		TR003	l .	Transistor DTA114ES	
TP-R		3P MX Pinpost		TR004		Transistor DTA114ES	
TP-C		3P MX Pinpost		TR005	273 0198 002	Transistor 2SC1815Y	
1F-C		3P MX Pinpost		TR006	275 0053 907	Transistor 2SK365(BL/GR)	
				TR007	269 0072 909	Transistor DTC323TS	
				TR008	269 0072 909		Ì
				TR009		Transistor DTC144TS	
				TR010	269 0080 904	Transistor DTA114TS	
				TR201	UDM D010 434	Transistor DTA114EKA	
				TR202	269 0054 901	Transistor DTC114EKA	
				TR203	269 0054 901	Transistor DTC144EKA	İ
				TR205	269 0054 901	Transistor DTC144EKA	
				TR206		Transistor DTC143EKA	
				TR207	269 0054 901	Transistor DTC144EKA	
				TR208	269 0054 901	Transistor DTC144EKA	
				TR209	269 0054 901	Transistor DTC144EKA	
				TR210	273 0303 910	Transistor 2SC1740S(S)	
				TR552	273 0303 910	Transistor 2SC1740S(S)	
				TR701	269 0020 906	Transistor DTC114ES	
				TR702	269 0020 906	Transistor DTC114ES	
				TR703	269 0062 906	Transistor DTC124ES	
				D001	276 0401 905	Diode 1SS133	
				D002	276 0401 905	Diode 1SS133	
				D003	276 0401 905	Diode 1SS133	
				D005	9L2 3980 64	Diode IN4001-U01	
					JEE 0000 04	5.000 H44001-001	

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
D202	276 0401 905	Diode 1SS133		R035	241 2403 934	Carbon 100kohm	RDL-104J1-16LQ
D203	276 0401 905	Diode 1SS133		R036	241 2399 970	Carbon 3.3kohm	RDL-332J1-16LQ
D204	276 0401 905	Diode 1SS133		R037	241 2403 934	Carbon 100kohm	RDL-104J1-16LQ
D205	276 0401 905	Diode 1SS133		R038	241 2403 934	Carbon 100kohm	RDL-104J1-16LQ
D261	276 0401 905	Diode 1SS133		R039	241 2399 019	Carbon 1.8kohm	RDL-182J1-16LQ
				R040	241 2399 019	Carbon 1.8kohm	RDL-182J1-16LQ
D551	276 0401 905	Diode 1SS133		R041	241 2400 953	Carbon 6.8kohm	RDL-682J1-16LQ
D552	9L2 3980 64	Diode IN4001-U01		R042	241 2400 953	Carbon 6.8kohm	RDL-682J1-16LQ
D553	9L2 3980 64	Diode IN4001-U01		R043	241 2401 059	Carbon 18kohm	RDL-183J1-16LQ
D554	9L2 3980 64	Diode IN4001-U01		R044	241 2400 995	Carbon 10kohm	RDL-103J1-16LQ
D555	9L2 3980 64	Diode IN4001-U01		R045	241 2400 995	Carbon 10kohm	RDL-103J1-16LQ
D556	9L2 3980 64	Diode IN4001-U01		R046	241 2400 034	Carbon 5.6kohm	RDL-562J1-16LQ
D557	9L2 3980 64	Diode IN4001-U01		R050	241 2396 025	Carbon 100ohm	RDL-101J1-16LQ
				R051	241 2403 934	Carbon 100kohm	RDL-104J1-16LQ
D701	276 0401 905	Diode 1SS133		R052	241 2403 934	Carbon 100kohm	RDL-104J1-16LQ
D702	276 0401 905	Diode 1SS133		R065	241 2400 911	Carbon 4.7kohm	RDL-472J1-16LQ
D703	276 0401 905	Diode 1SS133					
				R101		Chip 390ohm	RNC391J1-16
ZD201	9L2 3390 31Q	Zener diode HZS6C1L		R102		Chip 390ohm	RNC391J1-16
				R103		Chip 68kohm	RNC683J1-16
ZD701	9L2 3390 73Q	Zener diode HZS9A3L		R104		Chip 68kohm	RNC683J1-16
				R105		Chip 150kohm	RNC154J1-16
LD701	9L2 3984 05	LED SLR54VC3F		R106		Chip 150kohm	RNC154J1-16
LD702	9L2 3984 05	LED SLR54VC3F		R107		Chip 47ohm	RNC470J1-16
				R108		Chip 47ohm	RNC470J1-16
		<u> </u>		R109		Chip 750ohm	RMC73M-F751JR
	RS GROUP		55,000,000	R110		Chip 750ohm	RMC73M-F751JR
R005	241 2398 052	i	RDL-102J1-16LQ	R111		Chip 560kohm	RNC564J1-16
R007	241 2400 911		RDL-472J1-16LQ	R112		Chip 560kohm	RNC564J1-16
R008	241 2397 943		RDL-331J1-16LQ	R113		Chip 47kohm	RNC473J1-16
R009	241 2397 008		RDL-221J1-16LQ	R114		Chip 47kohm	RNC473J1-16
R010	241 2399 019		RDL-182J1-16LQ	R115		Chip 22ohm	RNC220J1-16
R011	241 2398 052		RDL-102J1-16LQ	R116		Chip 22ohm	RNC220J116
R014	241 2396 025		RDL-101J1-16LQ	R117		Chip 100ohm	RNC101J1-16
R015	241 2400 979		RDL-822J1-16LQ	R118		Chip 100ohm	RNC101J1-16
R016	241 2399 996		RDL-392J1-16LQ	R119		Chip 470kohm	RNC474J116
R017 R018	l .	Carbon 390ohm Carbon 150ohm	RDL-391J1-16LQ RDL-151J1-16LQ	R120		Chip 470kohm	RNC474J116
1		1	RDL-101J1-16LQ	R121		Chip 1Mohm	RNC105J116
R019	1	Carbon 100ohm Carbon 15kohm	RDL-153J1-16LQ	R122		Chip 1Mohm	RNC105J116
R020				R123		Chip 1Mohm	RNC105J116
R021	1	Carbon 120ohm	RDL-121J1-16LQ	R124		Chip 1Mohm	RNC105J116
R022	1	Carbon 39kohm Carbon 6.8kohm	RDL-393J1-16LQ	R125		Chip 1Mohm	RNC105J116
R024		Carbon 6.6konm	RDL-682J1-16LQ	R126		Chip 1Mohm	RNC105J116
R025	ı	Carbon 10kohm	RDL-103J1-16LQ	R127		Chip 1Mohm	RNC105J116
R026 R027	241 2400 995	1	RDL-103J1-16LQ RDL-332J1-16LQ	R128	1	Chip 1Mohm	RNC105J116
R028	241 2400 089		RDL-912J1-16LQ	R133		Chip 470ohm	RNC471J 16
R029	241 2400 089	1	RDL-683J1-16LQ	R134		Chip 470ohm	RNC471J116
R030	241 2402 090	1	RDL-623J1-16LQ	R135		Chip 470ohm	RNC471J116
R031	241 2402 980		RDL-623J1-16LQ	R136		Chip 470ohm	RNC471J116
R032	l	1		R137		Chip 470ohm	RNC471J116
1	241 2403 934 241 2403 950		RDL-104J1-16LQ	R138		Chip 470ohm	RNC471J116
R033 R034	241 2403 950	i	RDL-124J1-16LQ	R139		Chip 470ohm	RNC471J116
NUU4	271 2700 300	OGRACIT IZONOIIII	RDL-124J1-16LQ				

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R140		Chip 470ohm	RNC471J1-16	R239		Chip 100ohm	RNC101J1-16
R141		Chip 470ohm	RNC471J1-16	R240		Chip 100ohm	RNC101J1-16
R142		Chip 470ohm	RNC471J1-16	R241		Chip 47kohm	RNC473J1-16
R143		Chip 470ohm	RNC471J1-16	R242		Chip 47kohm	RNC473J1-16
R144		Chip 470ohm	RNC471J1-16	R243		Chip 100kohm	RNC104J1-16
R145		Chip 680kohm	RNC684J1-16	R251		Chip 2.2kohm	RNC222J1-16
R151		Chip 12kohm	RNC123J1-16	R252		Chip 2.2kohm	RNC222J1-16
R152		Chip 12kohm	RNC123J1-16	R253		Chip 4.7kohm	RNC472J1-16
R153		Chip 56kohm	RNC563J1-16	R254		Chip 4.7kohm	RNC472J1-16
R154		Chip 56kohm	RNC563J1-16	R265		Chip 220kohm	RNC224J1-16
R155		Chip 100kohm	RNC104J1-16	R266		Chip 1kohm	RNC102J1-16
R156		Chip 100kohm	RNC104J1-16	R267		Chip 3.3kohm	RNC332J1-16
R157		Chip 100ohm	RNC101J1-16	R268		Chip 100ohm	RNC101J1-16
R158		Chip 100ohm	RNC101J1-16	R269		Chip 100kohm	RNC104J1-16
R159		Chip 100ohm	RNC101J1-16	R270		Chip 100kohm	RNC104J1-16
R160		Chip 100ohm	RNC101J1-16	R271		Chip 220kohm	RNC224J1-16
		•		R272		Chip 1kohm	RNC102J1-16
R201		Chip 7.5kohm	RMC73M-1F752JR	R273		Chip 3.3kohm	RNC332J1-16
R202		Chip 47kohm	RNC473J1-16	R274		Chip 100ohm	RNC101J1-16
R203		Chip 15kohm	RNC153J1-16	R280		Chip 100ohm	RNC101J1-16
R204		Chip 7.5kohm	RMC73M-1F752JR	R281		Chip 470kohm	RNC474J1-16
R205		Chip 47kohm	RNC473J1-16	R282		Chip 1kohm	RNC102J1-16
R206		Chip 15kohm	RNC153J1-16	R283		Chip 5.6kohm	RNC562J1-16
R207		Chip 7.5kohm	RMC73M-1F752JR	R284		Chip 33kohm	RNC333J1-16
R208		Chip 56kohm	RNC563J1-16	R285		Chip 470kohm	i
R209		Chip 56kohm	RNC563J1-16	R286		Chip 100ohm	RNC474J1-16 RNC101J1-16
R210		Chip 100kohm	RNC104J1-16	R287		Chip 1kohm	1
R211	Ì	Chip 100kohm	RNC104J1-16	R288		Chip 5.6kohm	RNC102J1-16
R212		Chip 15kohm	RNC153J1-16	R290		Chip 33kohm	RNC562J1-16
R213		Chip 8.2kohm	RNC822J1-16	R296		Chip 10kohm	RNC333J1-16 RNC103J1-16
R214		Chip 15kohm	RNC153J1-16	R297		Chip 10kohm	
R215		Chip 330kohm	RNC334J1-16	R298	241 2321 032	'	RNC103J1-16
R218		Chip 47kohm	RNC473J1-16	11200	241 2021 002	Carbon 4.70mm	RD14S2E4R7J(NB)
R219		Chip 47kohm	RNC473J1-16	R301	241 2396 025	Carbon 100ohm	DDI 404 I4 40
R220		Chip 47kohm	RNC473J1-16	R302	i .	Carbon 100ohm	RDL-101J1-16
R221		Chip 8.2kohm	RNC822J1-16	1302	241 2390 025	Carbon 1000nm	RDL-101J1-16
R222		Chip 8.2kohm	RNC822J1-16	R590	044 0400 044	Contrar 4 Thates	DD1 45044 4010
R223		Chip 8.2kohm	RNC822J1-16	R591	í	Carbon 4.7kohm	RDL-472J1-16LQ
R224		Chip 1Mohm	RNC105J1-16	R592	l .	Carbon 10kohm	RDL-103J1-16LQ
R225		Chip 15kohm	RNC153J1-16	n392	241 23/5 9/6	Carbon 20ohm	RD14S2E200J(NR)
R226		Chip 18kohm		D704	044 0000 050	0.1.41.1	
R227		,	RNC183J1-16	R701	l	Carbon 1kohm	RDL-102J1-16LQ
R228		Chip 15kohm	RNC153J1-16	R702	l :	Carbon 200ohm	RDL-201J1-16LQ
R229		Chip 20ohm	RMC73M-1F200JR	R703	241 2397 037	Carbon 300ohm	RDL-301J1-16LQ
R230		Chip 20ohm Chip 7.5kohm	RMC73M-1F200JR	R704		Carbon 510ohm	RDL-511J1-16LQ
R231		Chip 5.6kohm	RMC73M-1F752JR	R707	241 2398 052	Carbon 1kohm	RDL-102J1-16LQ
R232]	l *	RNC562J1-16	R708	241 2396 999	Carbon 200ohm	RDL-201J1-16LQ
R233		Chip 18kohm	RNC183J1-16	R709	241 2397 037	Carbon 300ohm	RDL-301J1-16LQ
R234		Chip 47kohm	RNC473J1-16	R710		Carbon 510ohm	RDL-511J1-16LQ
R235		Chip 47kohm	RNC473J1-16	R711	241 2398 052	Carbon 1kohm	RDL-102J1-16LQ
	044 0004 045	Chip 47kohm	RNC473J1-16	R712	241 2399 064	Carbon 3kohm	RDL-302J1-16LQ
R236	241 2321 045	Carbon 220ohm	RD14S2E221J(NB)	R713	241 2398 052	Carbon 1kohm	RDL-102J1-16LQ
R237		Chip 1kohm	RNC102J1-16	R719	241 2398 052	Carbon 1kohm	RDL-102J1-16LQ

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R720	241 2396 999	Carbon 200ohm	RDL-201J1-16LQ	C039		Ceramic 0.01µF/16V	CCT103M16D3
R721	241 2397 037	Carbon 300ohm	RDL-301J1-16LQ	C040	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
R722	241 2397 082	Carbon 510ohm	RDL-511J1-16LQ	C041	254 4256 033	Electrolytic 47µF/25V	CE04W1E470MB(SSL)
R723	241 2398 052	Carbon 1kohm	RDL-102J1-16LQ	C042	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
R724	241 2399 064	Carbon 3kohm	RDL-302J1-16LQ	C043	254 4196 012	Electrolytic 0.22µF/50V	CE04W1HR22(SRA)
R725	241 2398 052	Carbon 1kohm	RDL-102J1-16LQ	C044	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
R726	241 2396 979	Carbon 200ohm	RDL-201J1-16LQ	C045		Ceramic 0.01µF/16V	CCT103M16D3
R727	241 2397 037	Carbon 300ohm	RDL-301J1-16LQ	C046	254 4260 058	Electrolytic 2.2µF/50V	CE04W1H2R2MB(SSL)
R728	241 2397 082	Carbon 510ohm	RDL-511J1-16LQ	C047	254 4260 058	Electrolytic 2.2µF/50V	CE04W1H2R2MB(SSL)
R729	241 2398 052	Carbon 1kohm	RDL-102J1-16LQ	C048	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)
R730	241 2399 064	Carbon 3kohm	RDL-302J1-16LQ	C049		Ceramic 0.01µF/16V	CCT103M16D3
R731	241 2400 911	Carbon 4.7kohm	RDL-472J1-16LQ	C051	254 4260 058	Electrolytic 2.2µF/50V	CE04W1H2R2MB(SSL)
R732	241 2398 052	Carbon 1kohm	RDL-102J1-16LQ	C052	254 4260 087	Electrolytic 10µF/50V	CE04W1H100MB(SSL)
R733	241 2399 051	Carbon 2.7kohm	RDL-272J1-16LQ	C053		Ceramic 680pF/50V	CCT681K50D3
R734	241 2400 092	Carbon 10kohm	RDL-103J1-16LQ	C054		Ceramic 680pF/50V	CCT681K50D3
R735	241 2400 092	Carbon 10kohm	RDL-103J1-16LQ	C056		Ceramic 0.01µF/16V	CCT103M16D3
R736	241 2400 092	Carbon 10kohm	RDL-103J1-16LQ	C057		Ceramic 0.01µF/16V	CCT103M16D3
R737	241 2400 092	Carbon 10kohm	RDL-103J1-16LQ	C059		Ceramic 0.01µF/16V	CCT103M16D3
R738		Carbon 2kohm	RDL-202J1-16LQ	C060		Ceramic 0.01µF/16V	CCT103M16D3
R742	241 2397 943	Carbon 330ohm	RDL-331J1-16LQ	C065		Ceramic 0.01µF/16V	CCT103M16D3
R743	241 2397 943	Carbon 330ohm	RDL-331J1-16LQ			·	
R744	241 2397 943	Carbon 330ohm	RDL-331J1-16LQ	C101		Ceramic 220pF/50V	CC73M\$L1H221J
R745	241 2400 092	Carbon 10kohm	RDL-103J1-16LQ	C102		Ceramic 220pF/50V	CC73M\$L1H221J
l				C103	254 4256 004	Electrolytic 10µF/25V	CE04W1E10OMB(SSL)
VR261	9LA Y001 71	Variable resistor 100kohm	Master volume	C104	254 4256 004	Electrolytic 10µF/25V	CE04W1E100 MB(SSL)
				C105		Ceramic 100pF/50V	CC73M8L1H101J
0404017	000 00011	<u> </u>		C106		Ceramic 100pF/50V	CC73M\$L1H101J
	ORS GROU		00740045000	C107	254 4254 022	Electrolytic 33µF/16V	CE04W1033OMB(SSL)
C004		Ceramic 12pF/50V	CCT120J50D3	C108	254 4254 022	Electrolytic 33µF/16V	CE04W1033OMB(SSL)
C007		Ceramic 0.01µF/16V	CCT103M16D3	C109	255 1251 982	Mylar film 5600pF/50V	CQ92M1H562JB
C008	074 0050 047	Ceramic 0.01µF/16V	CCT103M16D3	C110	255 1251 982	Mylar film 5600pF/50V	CQ92M1H562JB
C011	254 3056 917	Electrolytic 1µF/50V	CE04W1H1R0MB(BP)	C111		Ceramic 1500pF/50V	CK73M£1H1 52K
C013	254 4196 009	1	CE04W1H0R1M(SRA)	C112		Ceramic 1500pF/50V	CK73MB1H1 52K
C014		Ceramic 0.022µF/50V		C113		Ceramic 0.01µF/50V	CK73MF1H1 03Z
C016		Ceramic 100pF/50V	CCT101Z50D3	C114		Ceramic 0.01µF/50V	CK73Mf1H1 03Z
C017		Ceramic 0.01µF/16V	CCT103M16D3	C115	254 4260 058	Electrolytic 2.2µF/50V	CE04W1#2R2MB(SSL)
C018	054 4000 000	Ceramic 0.01µF/16V	CCT103M16D3 CE04W1HR47MB(SSL)	C116	254 4260 058	Electrolytic 2.2µF/50V	CE04W1#2R2MB(SSL)
C019	254 4260 032			L C129		Ceramic 0.1µF/25V	CK73Mf1E1 04Z
C020	254 4260 045	1 ' '	CE04W1H1R0MB(SSL)	C130		Ceramic 0.1µF/25V	CK73Mf1E1 04Z
C021	254 4260 087	Electrolytic 10µF/50V	CE04W1H100MB(SSL)	C131		Ceramic 0.1µF/25V	CK73Mf1E1 04Z
C022		Ceramic 0.022µF/50V	CCT223Z50D3	C133	254 4260 045	Electrolytic 1µF/50V	CE04W1I1ROMB(SSL)
C023	055 4405 005	Ceramic 100pF/50V	CCT101J50D3	C136		Ceramic 0.022µF/50V	CK73M11H223Z
C024	255 1135 095	· '	CQ92M1H563JB	C137		Ceramic 0.022µF/50V	CK73Mf1H223Z
C025	254 4260 993		CE04W1H220MB(SSL)	C138		Ceramic 0.022µF/50V	CK73M11H223Z
C027	254 4260 993	* *	CE04W1H220MB(SSL)	C139		Ceramic 2200pF/50V	CK73M11H222M
C028	254 4260 045	Electrolytic 1µF/50V Ceramic 0.01µF/16V	CE04W1H1R0MB(SSL) CCT103M16D3	C151	254 4256 004	Electrolytic 10µF/25V	CE04W1(100 MB(SSL)
C029		·		C152	254 4256 004	Electrolytic 10µF/25V	CE04W1[10O MB(SSL)
C031	252 2125 007	Ceramic 0.01µF/16V Ceramic 15pF/50V	CCT103M16D3 CCT150J50D3	C153		Ceramic 100pF/50V	CC73MiiL1H#101J
C033	253 3125 007 253 3125 007	· ·	CCT150J50D3	C154		Ceramic 100pF/50V	CC73M%_11-#101J
C034	255 1134 041	1		C155	254 4260 045	, ,	CE04W1I1ROMB(SSL)
C035	233 1134 041	Mylar film 0.047µF/50V Ceramic 0.01µF/16V	CQ92M1H473JB CCT103M16D3	C156	254 4260 045	Electrolytic 1µF/50V	CE04W111ROMB(SSL)
C036 C037		Ceramic 0.01µF/16V	CCT103M16D3				
0007		Octumo oto (pri / Tov		<u> </u>			

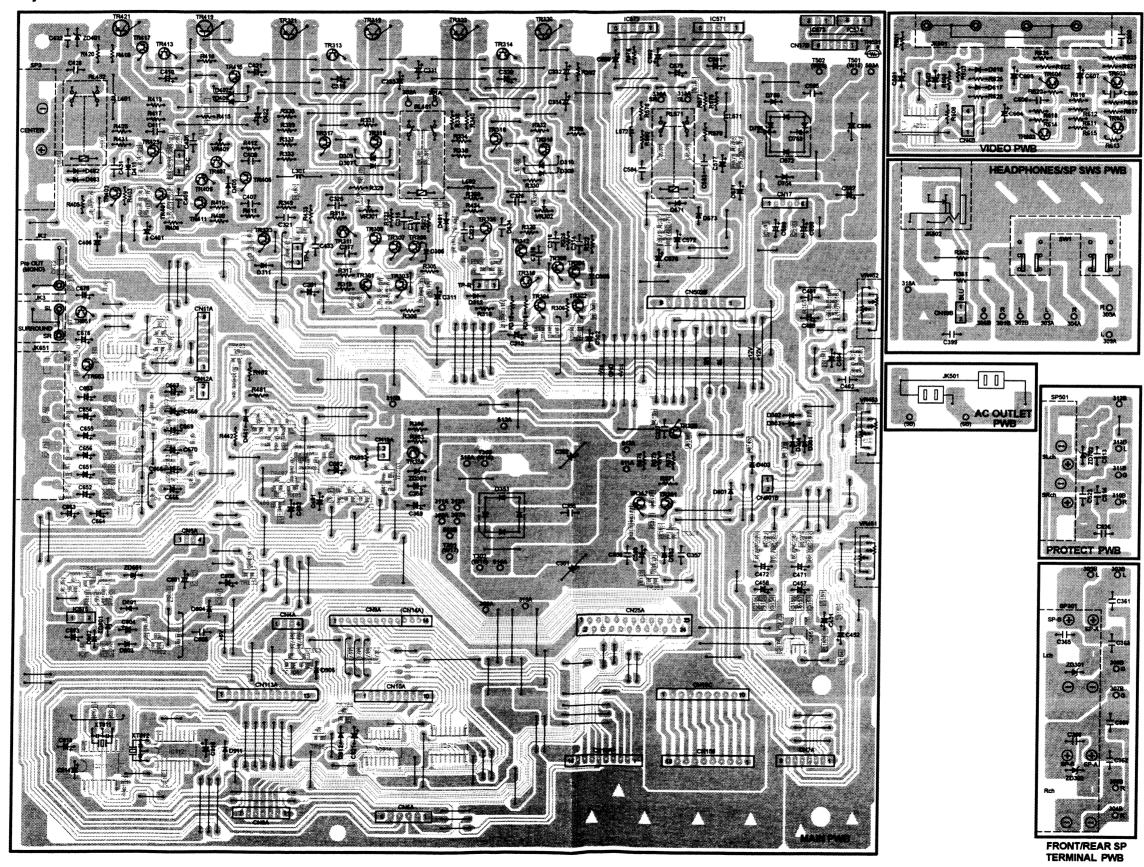
Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
C201	255 4224 945	Mylar film 0.1µF/50V	CQ92M1H104KB	C253		Ceramic 5600pF/50V	CK73MB1H562K
C202	255 4224 945	Mylar film 0.1µF/50V	CQ92M1H104KB	C254		Ceramic 5600pF/50V	CK73MB1H562K
C203		Ceramic 680pF/50V	CC73MSL1H681J	C255		Ceramic 0.1µF/25V	CK73MF1E104Z
C204	255 4212 054	Mylar film 0.047µF/50V	CQ92M1H473KB	C256	254 4256 004	,	CE04W1E100MB(SSL
C205	255 4224 945	Mylar film 0.1µF/50V	CQ92M1H104KB	C257	254 4252 037	Electrolytic 100µF/10V	CE04W1A101MB
C206	255 4224 945	Mylar film 0.1µF/50V	CQ92M1H104KB	C258	254 4256 033		CE04W1E470MB(SSL
C207		Ceramic 680pF/50V	CC73MSL1H681J	C259		Ceramic 220pF/50V	CC73MCH1H221J
C208	255 4212 054	Mylar film 0.047µF/50V	CQ92M1H473KB	C260		Ceramic 220pF/50V	CC73MCH1H221J
C209	254 4260 993	Electrolytic 22µF/50V	CE04W1H220MB(SSL)	C261	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSI
C210	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL)	C262	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSI
C211	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL)	C265	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL
C212	254 4252 037	Electrolytic 100µF/10V	CE04W1A101MB	C266	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL
C213	255 1241 940	Mylar film 4700pF/50V	CQ92M1H472JB	C268	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL
C214	254 4260 993	Electrolytic 22µF/50V	CE04W1H220MB(SSL)	C269		Ceramic 470pF/50V	CC73MSL1H471J
C215	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL)	C270	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL
C216	255 4212 009	Mylar film 0.22µF/50V	CQ92M1H224KB	C271	254 4256 004	, ,	CE04W1E100MB(SSL
C217	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL)	C272	201 1200 001	Ceramic 470pF/50V	CC73MSL1H471J
C218	254 4256 004	Electrolytic 10µF/25V	CE04W1E100MB(SSL)	C273	254 4256 004		CE04W1E100MB(SSL
C219	254 4256 046	Electrolytic 100µF/25V	CE04W1E101MB	C277	245 4256 004	1	CE04W1E100MB(SSL
C220	255 1251 982	Mylar film 5600pF/50V	CQ92M1H562JB	C279	245 4256 004		,
C221	254 4250 055	Electrolytic 470µF/6.3V	CE04W0J471MB	C283	245 4256 004	l '	CE04W1E100MB(SSL
C222	255 4212 054	Mylar film 0.047µF/50V	CQ92M1H473JB	C284	240 4200 004	Ceramic 0.022µF/50V	CE04W1E100MB(SSL
C223		Ceramic 470pF/50V	CC73MSL1H471J	C285	254 4256 004	i i	CK73MF1H223Z
C224		Ceramic 2200pF/50V	CK73MB1H222K	C286	234 4236 004		CE04W1E100MB(SSL
C225	254 4260 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)	C287	054 4406 044	Ceramic 0.022µF/50V	CK73MF1H223Z
C226	256 1035 075	Mylar film 0.068µF/50V	CQM-684J500HB	C288	254 4196 944	,	CE04W1H1R0MB(SSL
C227	255 4212 009		CQ92M1H224KB	C289		Ceramic 0.01µF/50V	CK73MF1H103Z
C228	1	Mylar film 0.22µF/50V	CQ92M1H224KB	C299		Ceramic 0.1µF/25V	CK73MF1E104Z
C229	255 4212 009	Mylar film 0.22µF/50V	CQ92M1H224KB	C290 C295		Ceramic 0.01µF/50V	CK73MF1H103Z
C230	254 4260 074	Electrolytic 4.7μF/50V	CE04W1H4R7MB(SSL)	1	054 4000 007	Ceramic 220pF/50V	CC73MSL1H221J
C231		Electrolytic 4.7μF/50V	CE04W1H4R7MB(SSL)	C297	254 4260 087	Electrolytic 10µF/25V	CE04W1E100MB(SSL
C232	1	Mylar film 0.22μF/50V	CQ92M1H224KB	C298	254 4260 087	Electrolytic 10µF/50V	CE04W1H100MB(SSL
C233		Mylar film 0.1µF/50V	CQ92M1H104KB	0554	054 4000 045	5. 	1
C234		Mylar film 0.1µF/50V	CQ92M1H104KB	C554		Electrolytic 1µF/50V	CE04W1H1R0MB(SSL
C235	1	Mylar film 0.1µF/50V	1	C555		Electrolytic 1000µF/25V	CE04W1E102MF
C236		Mylar film 0.1µF/50V	CQ92M1H104KB	C556	253 1181 904	Ceramic 0.01µF/50V	CK451H103ZB
C237	1		CQ92M1H104KB	C557		Ceramic 0.01µF/50V	CK451H103ZB
C238	i	Mylar film 0.022µF/50V	CQ92M1H223JB	C559	253 8001 100	Ceramic 250pF	CC-472M251F-D
C239	t .	Mylar film 0.022µF/50V	CQ92M1H223JB			_	
C239	254 4260 045		CE04W1H1R0MB(SSL)	C703	254 4260 074	Electrolytic 4.7µF/50V	CE04W1H4R7MB(SSL
C240 C241		Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)	C705	254 4250 929	Electrolytic 100µF/6.3V	CE04W0J101MB
	254 4200 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)	C706		Ceramic 0.01µF/16V	CCT103M16D3
C242		Ceramic 0.1µF/25V	CK73MF1E104Z	C707	254 4256 046	Electrolytic 10µF/25V	CE04W1E100MB(SSL)
C243		Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)				
C244	025 4426 045	Electrolytic 1µF/50V	CE04W1H1R0MB(SSL)				
C245		Ceramic 470pF/50V	CC73MSL1H471J				
C246		Ceramic 3300pF/50V	CK73MB1H332K				
C247		Ceramic 0.1µF/25V	CK73MF1E104Z				
C248		Ceramic 0.1µF/25V	CK73MF1E104Z				
C249		Ceramic 0.1µF/25V	CK73MF1E104Z]			
C250	254 4256 033	Electrolytic 47µF/25V	CE04W1E470MB(SSL)				
C251		Ceramic 0.1µF/25V	CK73MF1E104Z	 			
C252		Ceramic 470pF/50V	CC73MSL1H471J	1			ļ

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
	ARTS GRO		*	SW719	9L2 6396 82R	Tact switch	
CF001		Ceramic filter SFE10.7MA-8		SW720	9L2 6396 82R	Tact switch	
CF002	261 0136 906			SW721	9L2 6396 82R	Tact switch	
CF003	9LB P005 01			SW722	9L2 6396 82R	Tact switch	
CF003	9LB P004 91			SW723	9L2 6396 82R	Tact switch	
CF004	3LD F004 31	Octamic liner Owio2-30ATO		SW724	9L2 6396 82R	Tact switch	
CN001A		2P MX Pin post	AVR-750/770 Models only	SW725	9L2 6396 82R	Tact switch	
CN001B		2P MX B-C Connecctor L=350	AVR-750/770 Models only	SW726	9L2 6396 82R	Tact switch	
CN007B		2P TXL B-C Connector L=100	ATT TOWN TO INCOME OF MY	SW727	9L2 6396 82R	Tact switch	
CN002A CN002B		2PTXL Pin post		SW728	9L2 6396 82R	Tact switch	
CN002B		4P MX B-C Connector L=350		SW729	9L2 6396 82R	Tact switch	
CN005B CN006B		6P Socket		SW730	9L2 6396 82R		
CN008B		7P Socket		SW731	9LF E002 03	1	
CN007B		8P Socket					
		10P PH B-C Connector L=270		JK101	9LE R002 23	6P US PIN Jack	
CN009B		10P Socket		JK102	I	8P US PIN Jack	
CN010B				OK TOL	022 11002 22	Control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont	
CN015B		10P Socket		L201	9I 2 1222 54F	Choke coil 120µH	
CN016B		10P Socket					
CN013B		13P Socket 10P Socket		∆RL551	9LF J000 51	Power relay	
CN015A		2P PH B-C Connector L=270					
CN003A		2P PH Pin post		PG001		2P VH Pin post	
CN003B	01 - 5000 00	25P FFC Connector		1 4001			
CN025B	9LE D008 22	25P FFG Connector		T003	9LB J002 51	AM IFT	
5000	01.0.7000.500	Cuan halden		T004	9L2 1370 33	FM DET Trans	
	9L2 7292 52R			1004	022 1070 00	1 11 221 114110	
	9L2 7292 52R		AVR-750/770 Models only	∆T501	91 B T005 32	Sub power trans	AVR-760/780 Models only
	9L2 7292 52R		AVR-750/770 Models only	≜ T501		Sub power trans	AVR-750/770 Models only
E006	9L2 7292 52R	ruse noidei	AVII-730/770 IVIOUEIS UTIIY				
E500 !	9L2 7292 52R	Fuse holder		TU001	9LH H000 31	Tuner pack	
	9L2 7292 52R					,	
	9L2 7292 52R			XT001	9L2 1701 32	Crystal 7.2MHz	
	9L2 7292 52R					,	
2003	9LZ 7292 32N	ruse noidei		XT201	399 0223 907	Crystal CSA2.00MG	
F70F	9LN J017 11	El holder					
E705	9LN J017 11	FL noider		XT701	399 9018 003	Crystal 4MHz	
EL 704	01 D D000 44	El Tubo		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	000 00 10 000		
FL701	9LD D000 41	rt rube		W003		1P Board-in connector (WHT)	
CIMOOO	01.0 0005.01	Clide quitab	AVR-750/770 Models only	W004		1P Board-in connector (ORG)	
SW002	9L2 6225 21	Slide switch	AVIT-750/770 WIDGES ONLY	W007	i	1P Board-in connector (GRY)	
0550	01 5 0000 11	Valtaga enlactor	AVR-750/770 Models only	W008		1P Board-in connector (RED)	AVR-750/770 Models only
		1	AVR-750/770 Models only	W009	1	1P Board-in connector (ORG)	AVR-750/770 Models only
\$553	9LF G000 11	Voltage selector	AVA-1301110 MODES ONLY	W010		1P Board-in connector (BLU)	AVR-750/770 Models only
04/700	01.0 6006 000	Toot switch		W011	l l	1P Board-in connector (GRY)	AVR-750/770 Models only
SW702 9	9L2 6396 82R	1	1	W012	l	1P Board-in connector (WHT)	AVR-750/770 Models only
CMIZOD	9L2 6396 82R	ı		W013	1	1P Board-in connector (GRY)	AVR-750/770 Models only
-	01.0 6006 000				f	` '	•
SW704 9	9L2 6396 82R	i i	I	I W∩14 ∣		1P BORIO-IN COMMENDICION (DE LE	AVH-/OUI//U MODES ONV
SW704 S SW708 S	9L2 6396 82R	Tact switch		W014 W015		1P Board-in connector (BLU) 1P Board-in connector (WHT)	AVR-750/770 Models only AVR-750/770 Models only
SW704 S SW708 S SW709 9	9L2 6396 82R 9L2 6396 82R	Tact switch Tact switch		W014 W015		1P Board-in connector (WHT)	AVR-750/770 Models only
SW704 S SW708 SW709 SW710 SW710	9L2 6396 82R 9L2 6396 82R 9L2 6396 82R	Tact switch Tact switch Tact switch		W015		1P Board-in connector (WHT)	• 1
SW704 S SW708 S SW709 S SW710 SW711 9	9L2 6396 82R 9L2 6396 82R 9L2 6396 82R 9L2 6396 82R	Tact switch Tact switch Tact switch Tact switch				` '	• 1
SW704 S SW708 S SW709 S SW710 S SW711 SW712 9	9L2 6396 82R 9L2 6396 82R 9L2 6396 82R	Tact switch Tact switch Tact switch Tact switch Tact switch Tact switch		W015	9LE U000 11	1P Board-in connector (WHT)	• 1

PRINTED WIRING BOARD

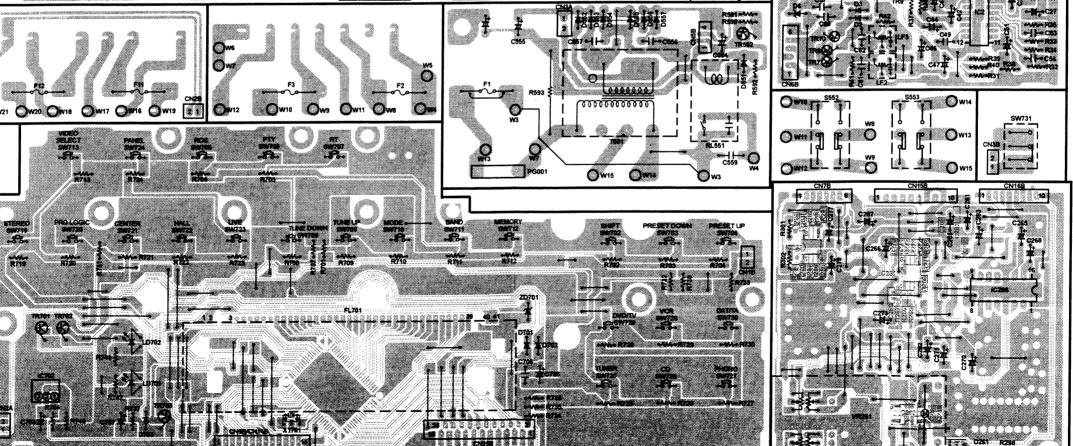
1 2 3 4 5 6 7 8

MAIN P.W.B. Ass'y UNIT



1 2 3 4 5 6 7 8

FL P.W.B. Assy UNIT



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PARTS LIST OF EXPLODED VIEW

AVR-750/760/770/780

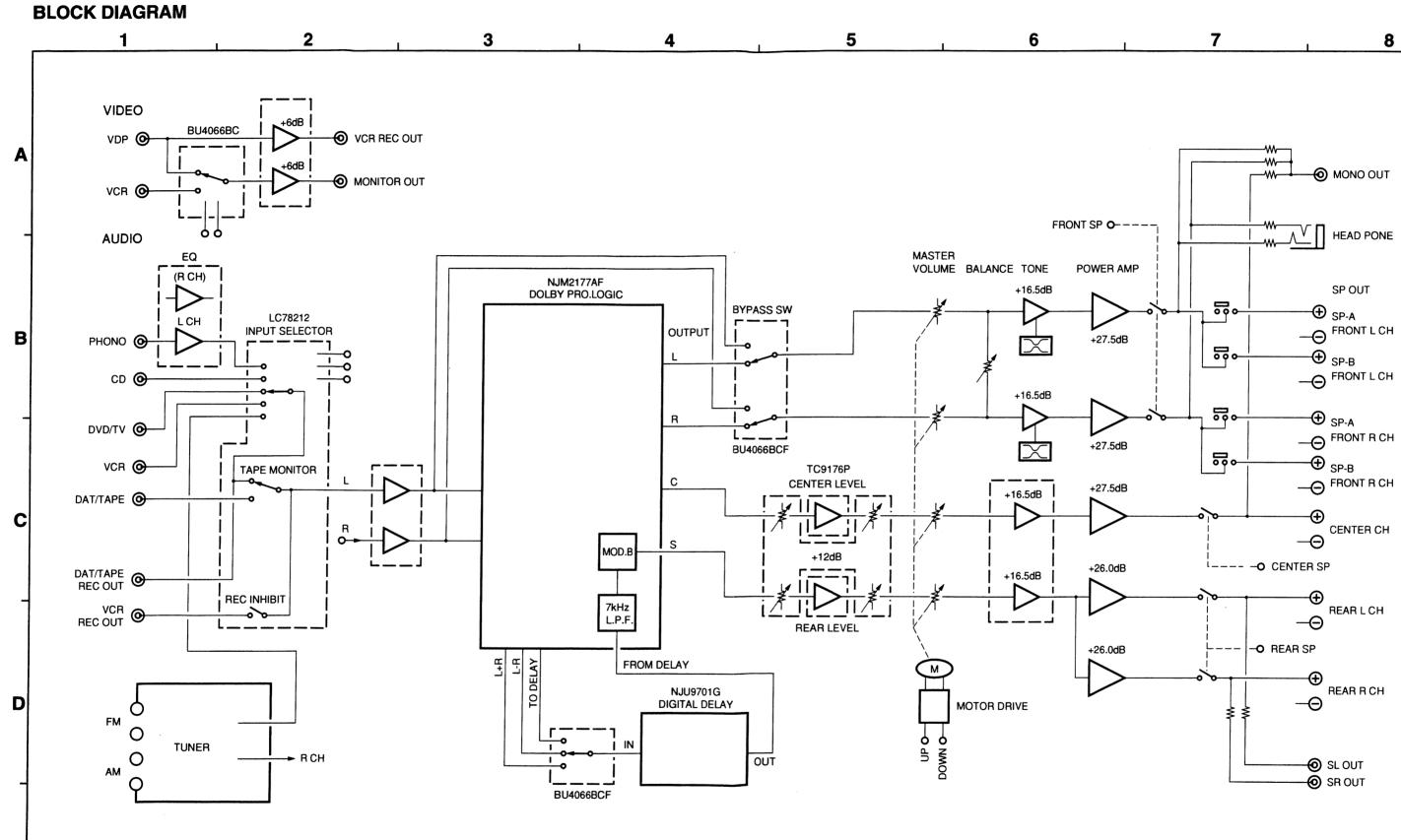
Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q't
1		Main P.W.B. Ass'y		1	28	9LE K001 18	25P FFC Cable		1
1-1	_	Main P.W.B. unit			29	_	Heat sink		1
_1-2	_	Video P.W.B. unit			30	9LM L002 51	Mini PWB post		5
1-1-3	_	AC Outlet P.W.B. unit			31	9LM 004 31	PWB support L		3
_1-4	_	Headphones/SP sw P.W.B. unit			32	9LP P002 41	Side wood L	Gold only	1
1-5	_	SP Terminal P.W.B. unit			33	9LP P002 31	Side wood R	Gold only	1
	_	Protect P.W.B. unit			34		Card spacer (L=8)		5
2		FL P.W.B. Ass'y		1	35		Heat sink bracket		1
2-1	_	FL P.W.B. unit			∆ 36	Note	Mini trans		1
-2-2	_	Audio P.W.B. unit			*	-	Origin label	AVR-750/770	T
2-3	_	Power supply P.W.B. unit						Models only	1
2-4	_	Voltage select sw P.W.B. unit			*	-	Number sheet		1
2-5	-	Tuner P.W.B. unit			*	-	Preset label	AVR-750/770	
-2-6	-	Master volume P.W.B. unit						Models only	1
2-7		Power switch P.W.B. unit			*	-	Caution label	AVR-760/780	1
-2-8		TF-PRI P.W.B. unit						Models only	
-2-9		TF-SEC P.W.B. unit			*	-	Rating label	AVR-760/780	1
L ₂₋₁₀		STAB1 unit			i			Models only	
3	9LQ A004 81	Bottom chassis		1					
4	104 0194 205	Foot	Black only	4					
		Foot	Gold only		Screws	L	<u> </u>	1	
5	9LP C018 02	VS button	Gold only	1	101	9L8 6914 10	Screw 3 x 10 BT BIND		29
	9LP C018 01		Black only		102	9L8 6714 06			4
A 7	Note	AC Cord	AVR-750/770	11	103	9L8 6794 06			5
	Note	AC Cord	AVR-760/780		104	9L8 6796 06			8
8	9LN X016 21	Phono earth terminal		1	105	1	NUT M9 x 0.75		4
9	Note	Inner panel	Gold only	1	106	475 6124 003			1
		Inner panel	Black only		107	9L8 6914 14	Screw 3 x 14 BT BIND		1
10	9LP H051 71	Clear panel		1	108	9L8 6794 08	Screw 3 x 8 DT BIND B		4
11	9LP C025 01	Function button		1	109	9L8 6994 10	Screw 3 x 10 BT BIND B		27
12	9LP C017 63	Tunner button	Gold only	1	110	9L8 6993 08	Screw 2.6 x 8 BT BIND B	AVR-750/770	
	9LP C017 61		Black only					Models only	4
13	9LP C017 72	Tuning button	Gold only	1	111	9L8 6914 14	Screw 3 x 14 BT BIND B		1
	9LP C017 71		Black only		112	9L8 6994 08	Screw 3 x 8 BT BIND B		2
14	9LP C017 82	Power button	Gold only	1	113	9LM J009 81	Screw (Side wood)	Gold only	4
	9LP C017 81		Black only						
15		SP button	Gold only	2					
	9LP C01 791		Black only		DACKING		DIEC		
16	Note	Front panel		1		9L3 6402 14W			
A 17	Note	Power trans	Oald aak				-		
18		VOL knob	Gold only	1	202		AM Loop ant. FM Ant.		
	9LP C025 11	BACC knob	Black only	3	203 204		Plug adapter	AVR-750/770	
19		BASS knob	Gold only Black only	"	204	JLE 1002 01	i lug avaptoi	Models only	1
00	9LP C017 41	Ton cover	Gold only	1	205	9LQ R233 34	Instruction manual	Wiceron Office	1
20		Top cover	Black only		205		Remote controller (RC840)		
	9LQ A004 92	Poor ploto	DIAUX UITIY	1	206	Note	Carton box		;
21	Note	Rear plate	FIE		207	9LS P029 51	Cushion		2
a #	02773 02773		F12		208	JLU FUZB 31	Poly sack		1
a			F2		210	_	Soft sack	ĺ	
a 6	Alche Note	Irene TSA	P		210	_	COIL SOUN		
a a	Note	Rue 125A Rue 125A	50						
2			•			1			
					L				

ADDENDUM PARTS LIST

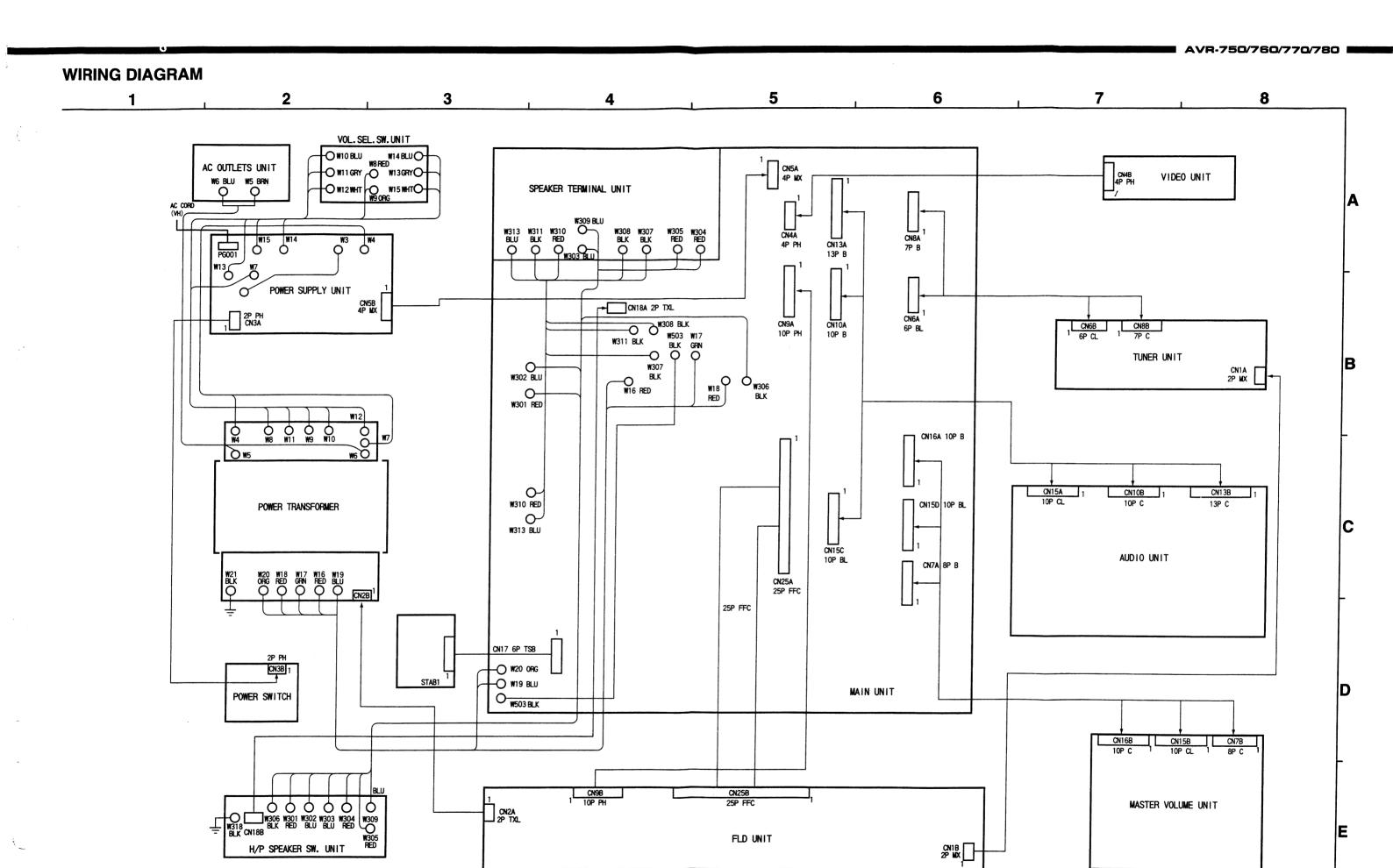
Ref. No.	Part Name	Part No.											
		AVR-750 AVR-760 AVR-770 AVR-780											
1	Main P.W.B. Ass'y												
2	FL P.W.B. Ass'y												
* 6	Euro converter plug	9LE P000 82	-	9LE P000 62	-								
7	AG Cord	9LE V004 44	9LE V004-45	9LE V004-44	9LE V004-45								
9	inner panel	9LP H051 81	9LP H051 82	9LP H051 83	9LP H051 84								
14	Power trans	9LB T010 23	9LB T010 22	9LB T010 23	9LB T010 22								
16	Front panell	9LP H051 54	9LP H051 55	9LP H051 56	9LP H051 57								
21	Rear plate	9LQ A009 93	9LQ A009 94	9LQ A009 95	9LQ A009 96								
25	Fuse T5A	91.2 7280 70	-	9L2 7280 70	-								
26	Puse T2.5A	-	9L2727722	-	912 7277 22								
27	Fuse T2.5A	91.2 7277 22	-	91.2 7277 22	-								
36	Mini trans	9LB T005 33	9LB T005 32	9LB T005 33	9LB T005 32								
PACKING A	AND ACCSEEORIES												
		AVR-750	AVR-760	AVR-770	AVR-780								
207	Carton box	9L SG07 033	9L SG07 034	9L SG07 271	9LSG07272								
-													
1													

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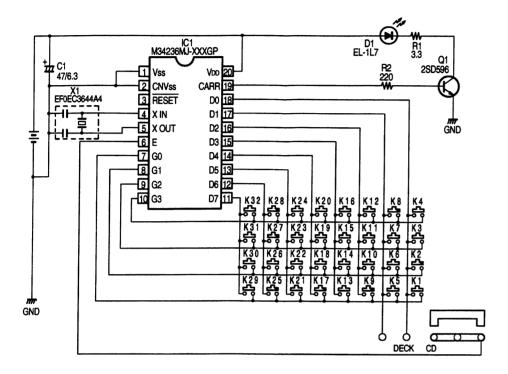
AVR-750/760/770/780



E



REMOTE CONTROL UNIT (RC-840)



RC-840 Transmitting Code Table

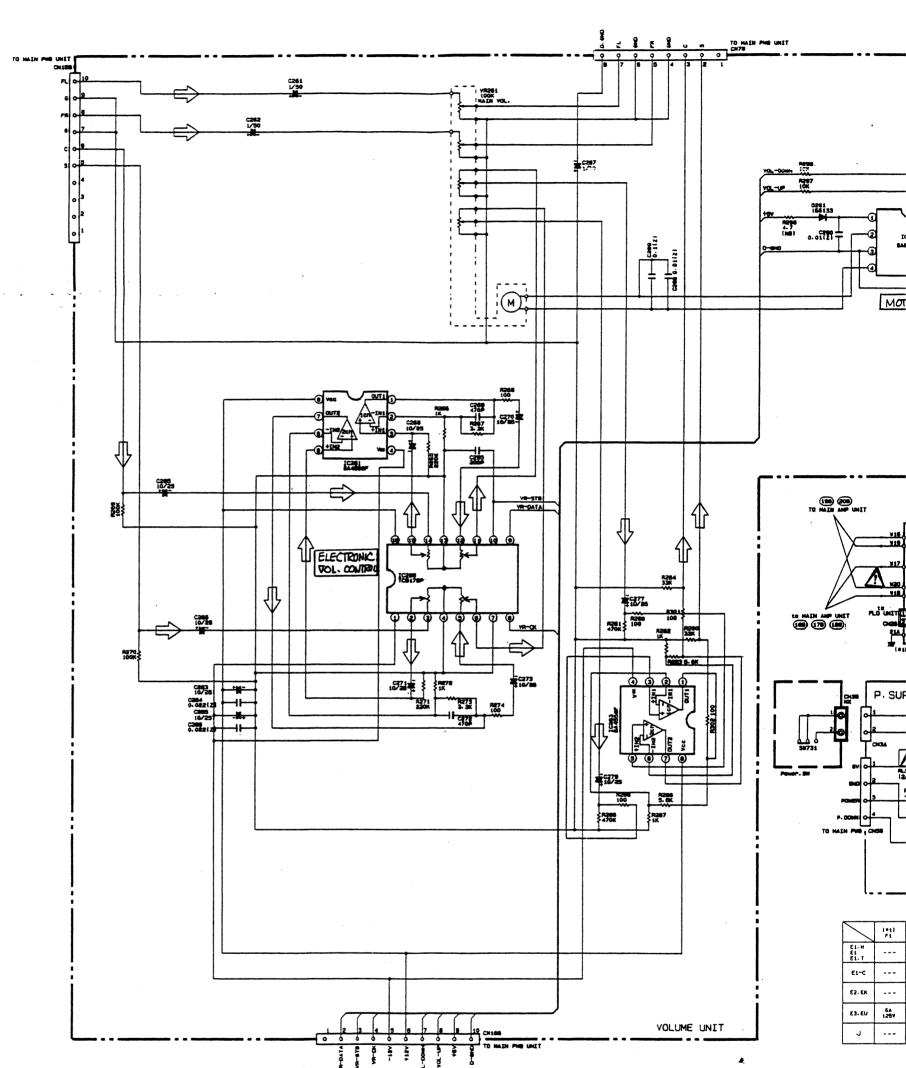
CD

KEY	Function	Classification	System address						Data code							Mask	Judge
No.	FullClion	Ciassilication	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	K
1	POWER ON/OFF	AV. AMP	0	1	0	0	0	1	0	0	0	0	0	1	1	0	0
2	DISK SKIP+	CD	0	0	0	1	0	1	1	0	1	0	1	1	0	0	0
3	STOP	CD	0	0	0	1	0	0	1	1	1	1	0	1	0	0	0
4	PLAY►	CD	0	0	0	1	0	0	0	1	1	1	0	1	0	0	0
5	AUTO SEARCH ◄◄	CD	0	0	0	1	0	1	0	0	1	1	0	1	0	0	0
6	PAUSE	CD	0	0	0	1	0	1	0	1	1	1	0	1	0	0	0
7	AUTO SEARTH ►	CD	0	0	0	1	0	0	0	0	1	1	0	1	0	0	0
8	PRESET. DOWN	TUNER	0	0	1	1	0	1	0	1	0	1	0	1	1	0	0
9	PRESET CH. UP	TUNER	0	0	1	1	0	0	1	1	0	1	0	1	1	0	0
10	CD	AV. AMP	0	1	0	0	0	0	0	1	0	0	0	1	1	0	0
11	PHOTO	AV. AMP	0	1	0	0	0	1	1	0	0	0	0	1	1	0	0
12	SHIFT	TUNER	0	0	1	1	0	1	0	1	1	0	0	1	1	0	0
13	TUNER	AV. AMP	0	1	0	0	0	1	0	1	0	0	0	1	1	0	0
14	VCR	AV. AMP	0	1	0	0	0	1	0	1	1	0	0	1	1	0	0
15	VDP/DBS	AV. AMP	0	1	0	0	0	0	1	0	1	0	0	1	1	0	0
16	STEREO	AV. AMP	0	1	0	0	0	1	1	1	0	0	1	1	1	0	0
17	SURR. MODE	AV. AMP	0	1	0	0	0	0	1	1	0	0	1	1	1	0	0
18	V.AUX/GAME	AV. AMP	0	1	0	0	0	0	0	1	1	0	0	1	1	0	0
19	DAT/TAPE MONITOR	AV. AMP	0	1	0	0	0	0	1	0	0	1	0	1	1	0	0
20	T. TONE	AV. AMP	0	1	0	0	0	0	1	0	1	0	1	1	_1	0	0
21	DELAY+	AV. AMP	0	1	0	0	0	1	0	0	1	0	1	1	1	0	0
22	MUTING	AV. AMP	0	1	0	0	0	0	0	0	0	1	1	1	1	0	0
23	SCREEN	AV. AMP	0	1	0	0	0	1	1	1	1	1	0	1	1	0	0
24	PANEL	AV. AMP	0	1	0	0	0	0	1	1	1	1	0	1	1	0	0
25	CENTER VOLUME UP	AV. AMP	0	1	0	0	0	1	0	1	0	1	1	1	1	0	0
26	CENTER VOLUME DOWN	AV. AMP	0	1	0	0	0	0	1	1	0	1	1	1	1	0	0
27	REAR VOLUME UP	AV. AMP	0	1	0	0	0	1	1	0	0	1	1	1	1	0	0
28	REAR VOLUME DOWN	AV. AMP	0	1	0	0	0	0	0	1	0	1	1	1	1	0	0
29	MASTER VOLUME UP	AV. AMP	0	1	0	0	0	1	0	0	0	1	1	1	1	0	0
30	MASTER VOLUME DOWN	AV. AMP	0	1	0	0	0	0	1	0	0	1	1	1	1	0	0

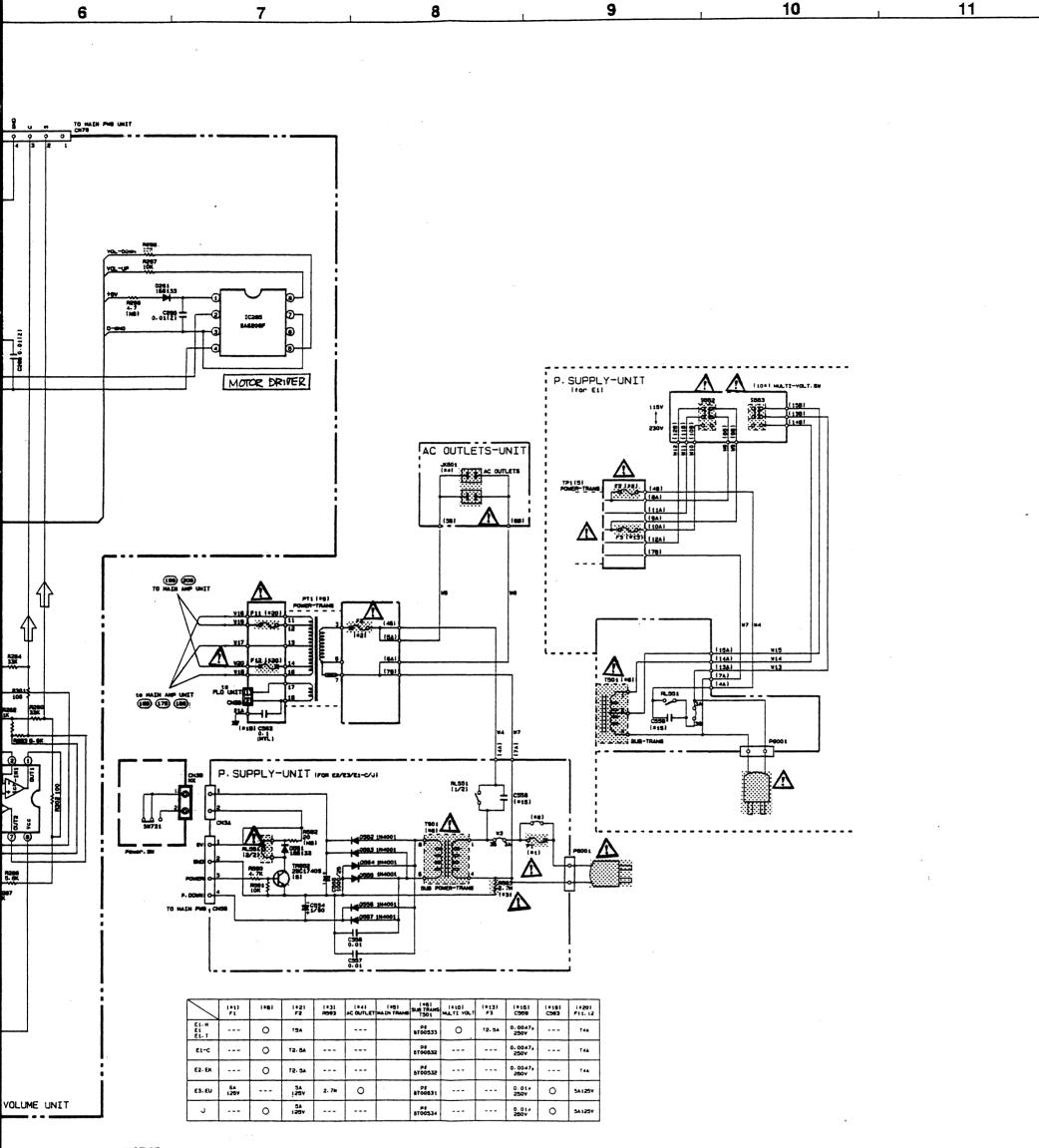
DECK

KEY	Function	Classification	System address						Data code							Mask	Judge
No.		Classification	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	К
1	POWER ON/OFF	AV. AMP	0	1	0	0	0	1	0	0	0	0	0	1	1	0	0
2	PLAY ◀	DECK	0	0	1	0	0	1	1	1	0	1	0	1	0	0	0
3	STOP ■	DECK	0	0	1	0	0	0	1	1	1	1	0	1	0	0	l 0
4	PLAY ►	DECK	0	0	1	0	0	0	0	1	1	1_1_	0	1	0	0	0
5	REW ◀◀	DECK	0	0	1	0	0	1	1	0	1	1	0	1	0	0	0
6	A/B	DECK	0	0	1	0	0	1	1	0	0	1	0	1	0	0	0
7	FF ►►	DECK	0	0	1	0	0	0	1	0	1	1	0	1	0	0	0
8	PRESET CH. DOWN	TUNER	0	0	1	1	0	1	0	1	0	1	0	1	1	0	0
9	PRESET CH. UP	TUNER	0	0	1	1	0	0	1	1	0	1	0	1	1	0	0
10	CD	AV. AMP	0	1	0	0	0	0	0	1	0	0	0	1	1	0	0
11	PHOTO	AV. AMP	0	1	0	0	0	1	1	0	0	0	0	1	1	0	0
12	SHIFT	TUNER	0	0	1	1	0	1	0	_1	1	0	0	1	1	0	0
13	TUNER	AV. AMP	0	1	0	0	0	1	0	1	0	0	0	1	1	0	0
14	VCR	AV. AMP	0	1	0	0	0	1	0	1	1	0	0	1	1	0	0
15	VDP/DBS	AV. AMP	0	1	0	0	0	0	1	0	1	0	0	1	1	0	0
16	STEREO	AV. AMP	0	1	0	0	0	1	1	1	0	0	1	1	1	0	0
17	SURR. MODE	AV. AMP	0	1	0	0	0	0	1	1	0	0	1	1	1	0	0
18	V. AUX/GAME	AV. AMP	0	1	0	0	0	0	0	1	1	0	0	1	1	0	0
19	DAT/TAPE MONITOR	AV. AMP	0	1	0	0	0	0	1	0	0	1	0	1	1	0	0
20	T. TONE	AV. AMP	0	1	0	0	0	0	1	0	1	0	1	1	1	0	0
21	DELAY+	AV. AMP	0	1	0	0	0	1	0	0	1	0	1	1	1	0	0
22	MUTING	AV. AMP	0	1	0	0	0	0	0	0	0	1	1	1	1	0	0
23	SCREEN	AV. AMP	0	1	0	0	0	1	1	1	1	1	0	1	1	0	0
24	PANEL	AV. AMP	0	1	0	0	0	0	1	1	1	1	0	1	1	0	0
25	CENTER VOLUME UP	AV. AMP	0	1	0	0	0	1	0	1	0	1	1	1	1	0	0
26	CENTER VOLUME DOWN	AV. AMP	0	1	0	0	0	0	1	1	0	1	1	1	1	0	0
27	REAR VOLUME UP	AV. AMP	0	1	0	0	0	1	1	0	0	1	1	1	1	0	0
28	REAR VOLUME DOWN	AV. AMP	0	1	0	0	0	0	0	1	0	1	1	1	1	0	0
29	MASTER VOLUME UP	AV. AMP	0	1	0	0	0	1	0	0	0	1	1	1	1	0	0
30	MASTER VOLUME DOWN	AV. AMP	0	1	0	0	0	0	1	0	0	1	1	1	1	0	0
													l	1	- 1		

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NOTICE
ALL RESISTANCE VALUES IN C
ALL CAPACITANCE VALUES IN
EACH VOLTAGE AND CURRENT
CONDITION.
CIRCUIT AND PARTS ARE SUB
NOTICE.



NOTICE

ALL CAPACITANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:

Parts marked with this symbol Δ make critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

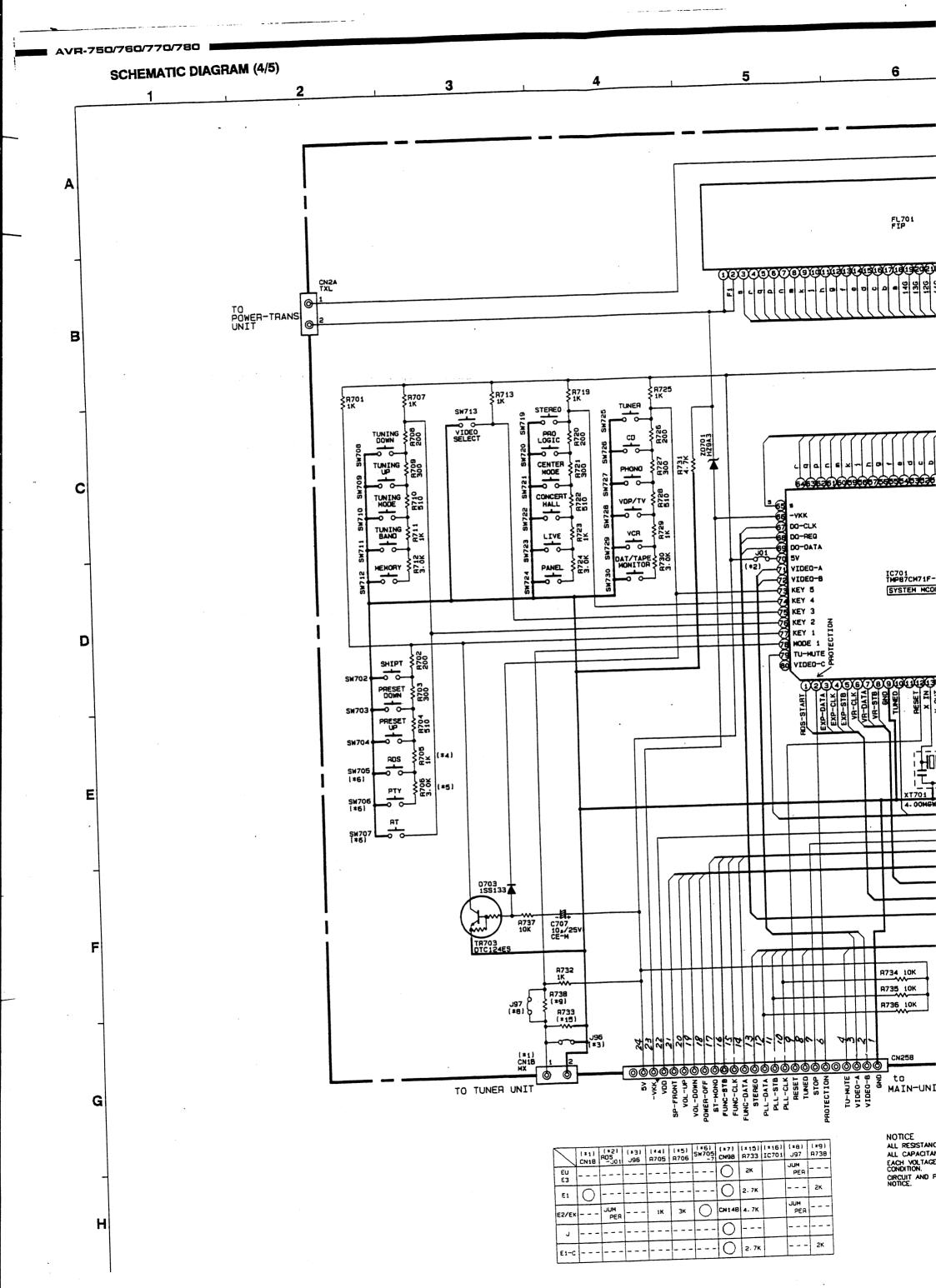
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 240 kohms, the unit is detective.

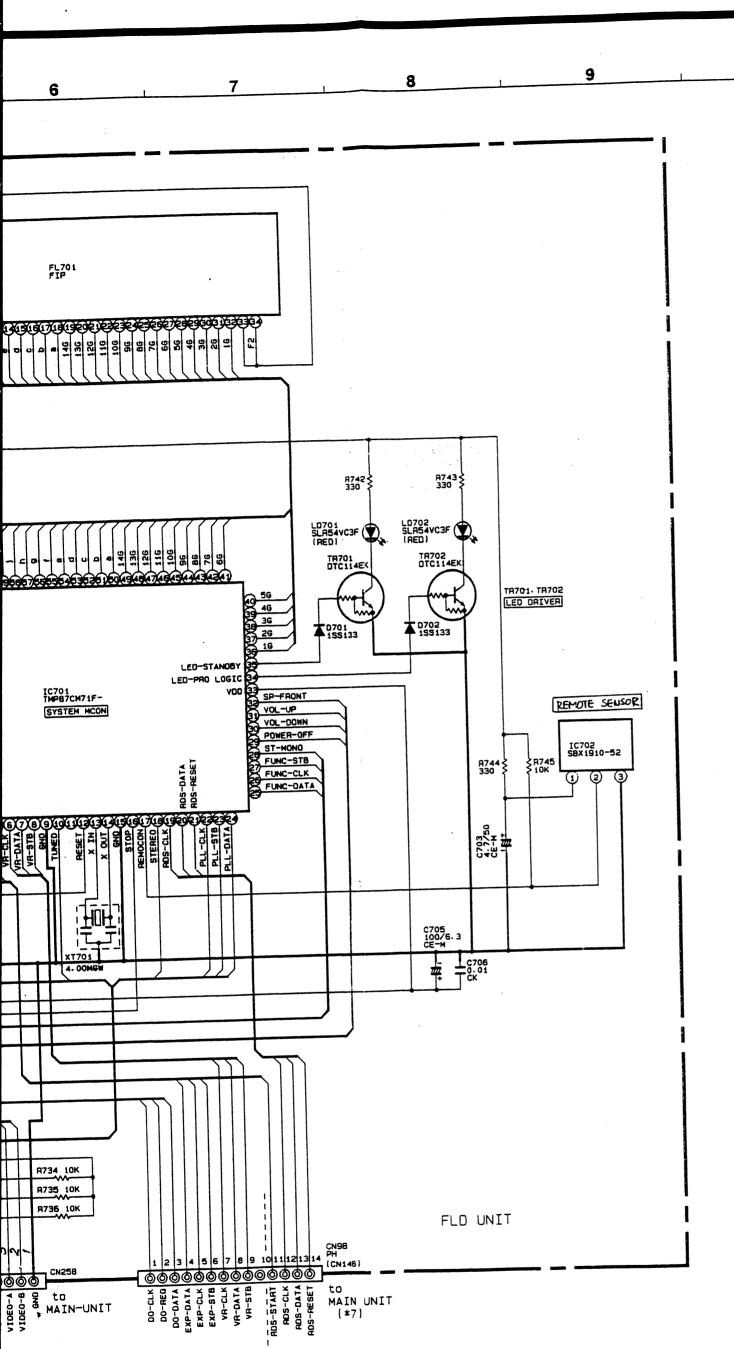
 $\ensuremath{\mathsf{DO}}$ NOT return the unit to the customer unit the problem is located and corrected.

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G





ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

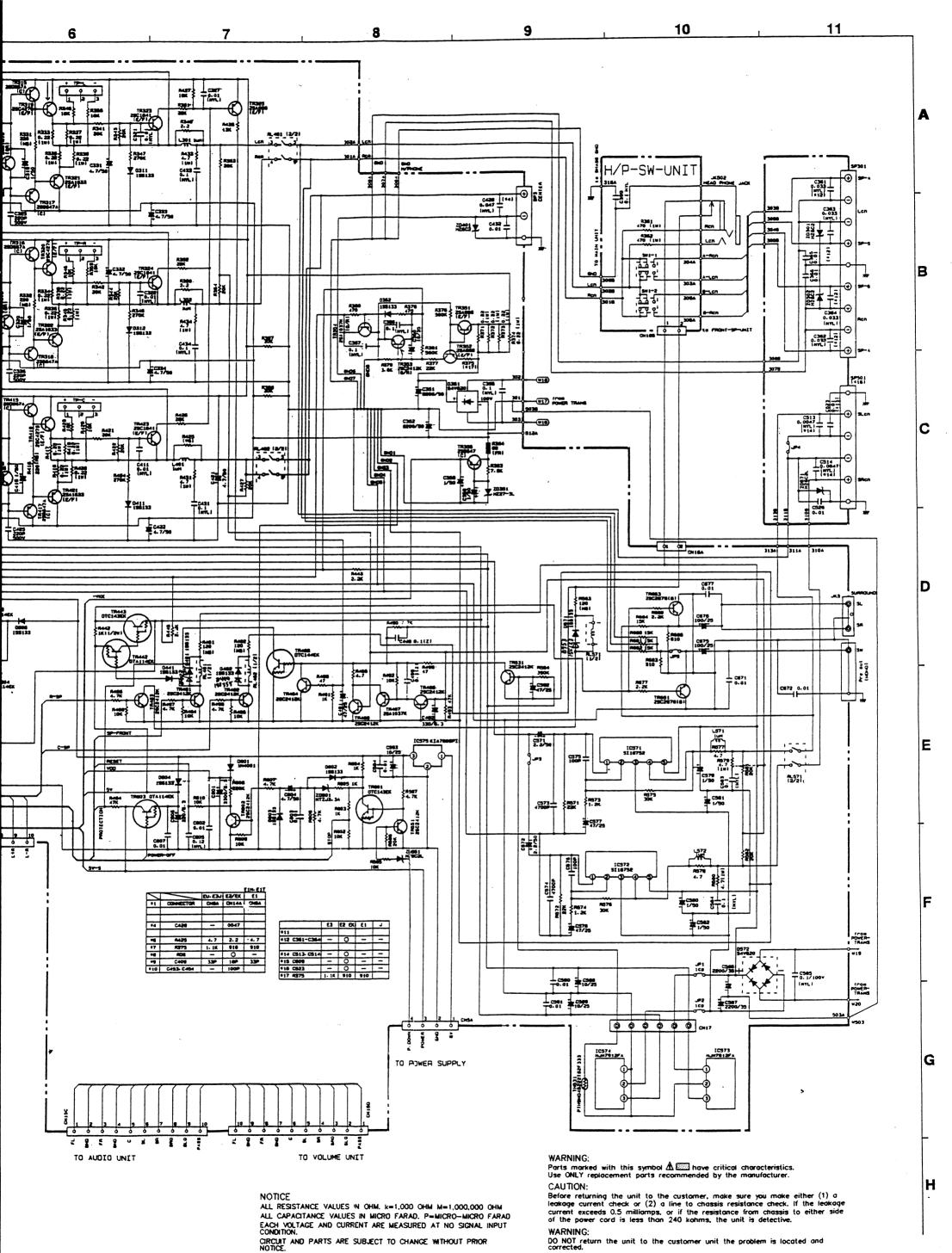
WARNING: WARNING:
Parts marked with this symbol \$\Delta = 1 \text{have critical characteristics.}
Use ONLY replacement parts recommended by the manufacturer.

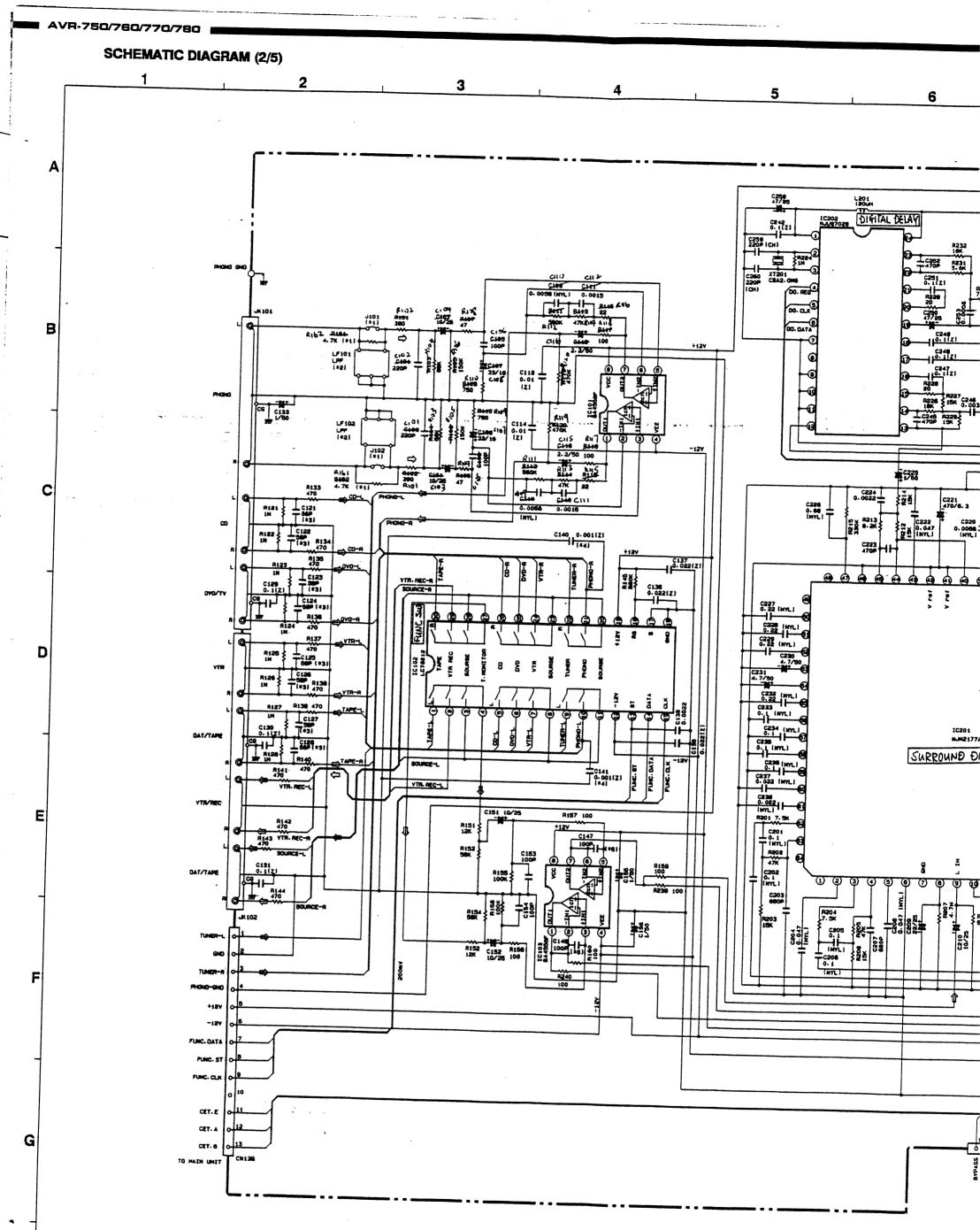
CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 240 kohms, the unit is detective.

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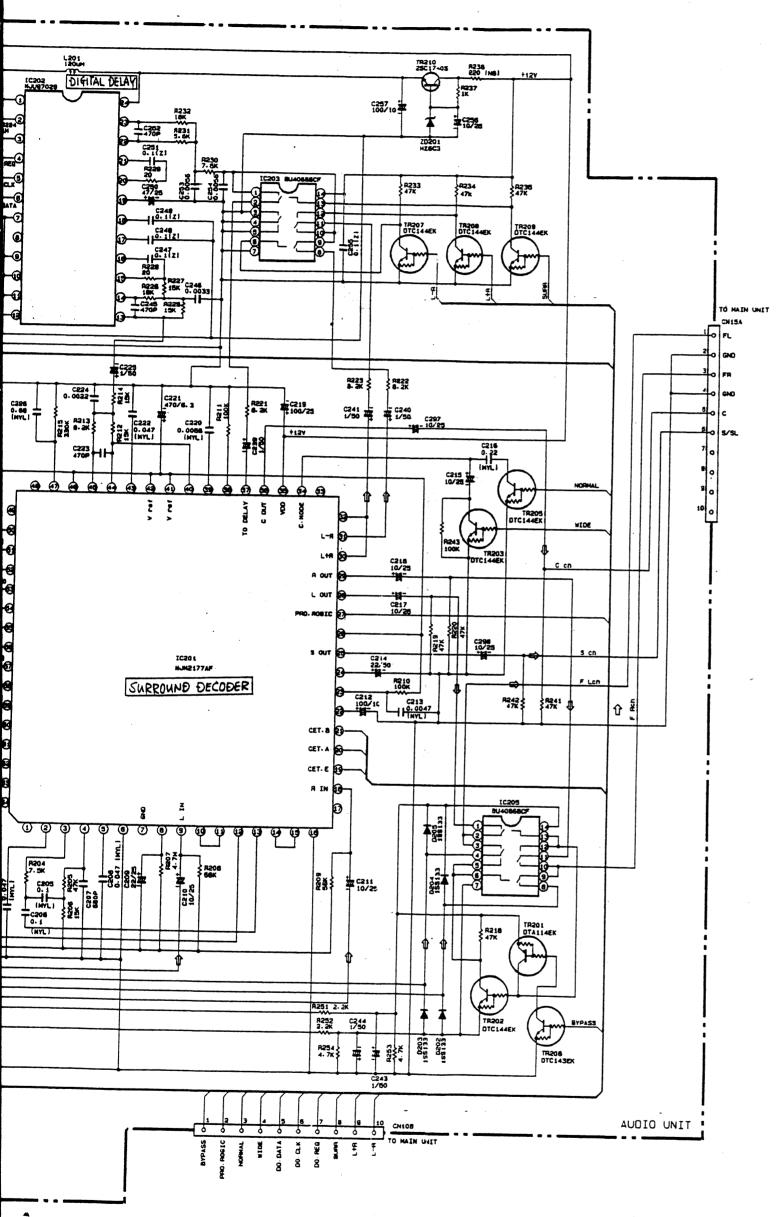
DO NOT return the unit to the customer unit the problem is located and corrected.





NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,00
ALL CAPACITANCE VALUES IN MICRO FAR
EACH VOLTAGE AND CURRENT ARE MEAS
CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHOOTICE.

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NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT
CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR
NOTICE.

WARNING:
Parts marked with this symbol & A law critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 240 kohms, the unit is detective. WARNING:

 $\overline{\text{DO}}$ NOT return the unit to the customer unit the problem is located and corrected.

